ORDER NO. MD0106136C1
A6

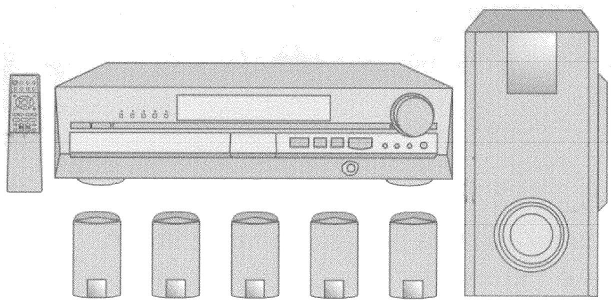
Service Manual

DVD Home Theatre Sound System

5-DVD CHANGER Home Theater Sound System
DVD VIDEO
VIDEO CD

SA-HT65

Colour
(S)... Silver Type
Area
(P)... U.S.A.
MECHANISM :
RAE1805Z-S TRAVERSE UNIT



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Specifications

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▌AMPLIFIER SECTION

FTC TTL Power Output	240 W
120 Hz-20 kHz, 1.0% total harmonic distortion	
Front	30 W per channel (6 Ω)
Center	30 W (6 Ω)
Surround	30 W per channel (6 Ω)
45 Hz-120 Hz, 1.0% total harmonic distortion	
Subwoofer	90 W (6 Ω)
RMS TTL Power Output	300 W
120 Hz - 20 kHz, 10% total harmonic distortion	
Front	36 W per channel (6 Ω)
Center	36 W (6 Ω)
Surround	36 W per channel (6 Ω)
45 Hz - 120 Hz, 10% total harmonic distortion	
Subwoofer	120 W (6 Ω)
Input sensitivity/input impedance	
AUX	250 mV, 10 kΩ

▌DISC SECTION

Disc	
DVD	8 cm/12 cm Single-Side, SingleLayer 8 cm/12 cm Single-Side, Double-Layer 8 cm/12 cm Double-Side, Double- Layer (One layer per side)
CD/ VCD	8 cm/12 cm (CD-R/RW)
Video	
Signal system	NTSC
Output level	Composite video 1 Vp-p (75 Ω)
S-video Y	1 Vp-p (75 Ω)
S-video C	0.286 Vp-p (75 Ω/NTSC)
Audio	
Sampling frequency	
CD	44.1 kHz
DVD	48 kHz/96 kHz
Decoding	16/20/24 bit linear
Wow and flutter	Below measurable limit
D/A converter	Delta-sigma DAC
Pick up	
Beam Source	Semiconductor Laser
Wavelength	
DVD	658 nm
VCD/CD	790 nm

▌FM TUNER SECTION

Frequency range	87.9-107.9 MHz (200 kHz steps) 87.5-108.0 MHz (100 MHz steps)
Sensitivity	16.3 dBf (1.8µV, IHF)
Antenna Terminals	75 Ω unbalanced

▌AM TUNER SECTION

Frequency range	520 - 1710 kHz (10 kHz steps)
Sensitivity	
S/N 20 dB at 1000 kHz	500 µV/m

▌GENERAL

Power supply	AC 120 V, 60 Hz
Power consumption	190 W

Power consumption in standby mode	0.25 W
Dimensions (W x H x D)	430 x 114 x 368 mm (16-15/16”x4-1/2”x14-1/2”)
Mass	8.4 kg(18.5 lb.)
SYSTEM	
SC-HT65 (P)	Main unit: SA-HT65 (P) Speaker: SB-HT80A (P) Sub woofer: SB-W70

Notes:

1. Specifiacations are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

1. Safety Precaution

(This “Safety Precaution” is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer’s recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

1.1. Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc.
   Equipment with antenna terminals should read between 3 MΩ and 5.2 MΩ to all exposed parts*.(Fig.1)
   Equipment without antenna terminals should read approximately infinity to all exposed parts.(Fig.2)
   *Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

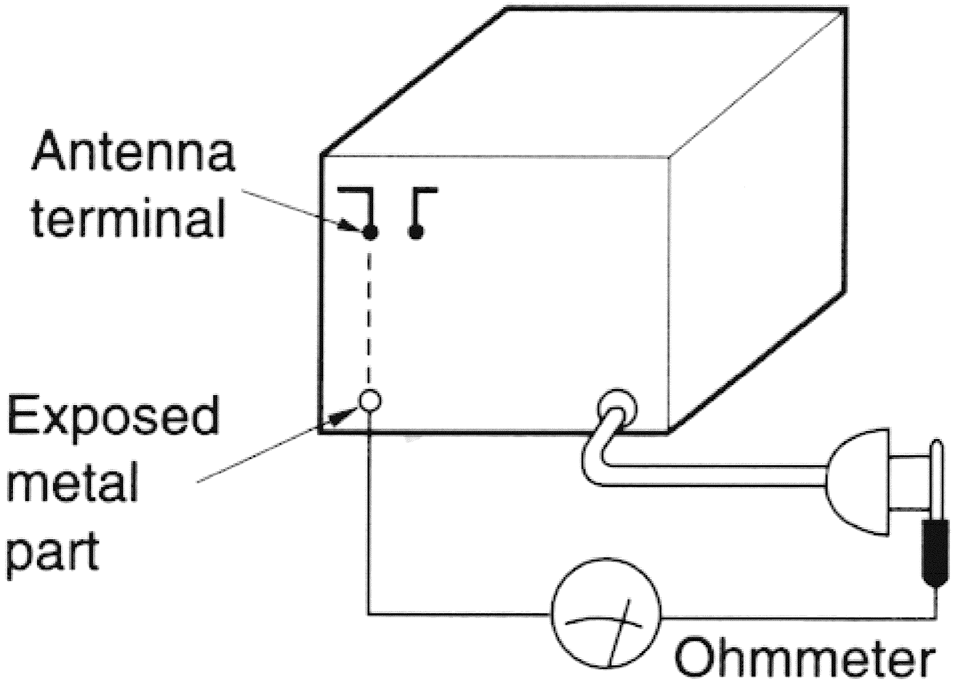

Antenna terminal
Exposed metal part
Ohmmeter

Fig. 1

Resistance = 3MΩ – 5.2MΩ

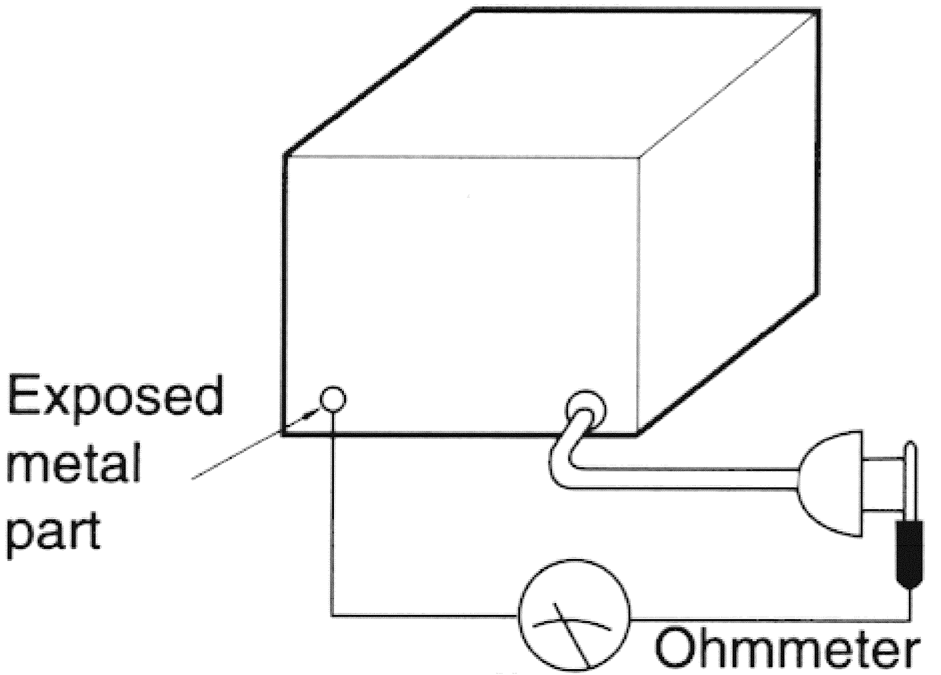

Exposed metal part
Ohmmeter

Fig. 2

Resistance = Approx ∞

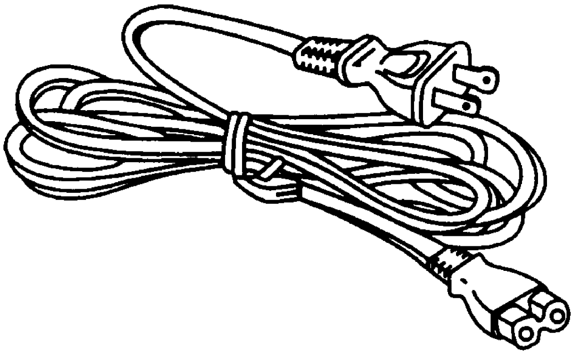
2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C527-C530, C561 through a 10 Ω, 5W resistor to

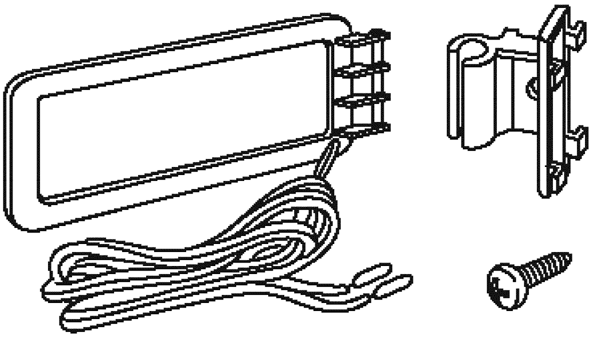
ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 120V, 60Hz in NO SIGNAL mode should be ~850 mA .

3. Accessories

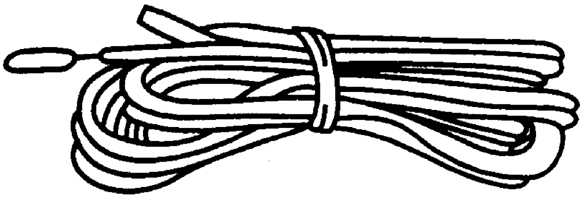
AC Power Supply Cord



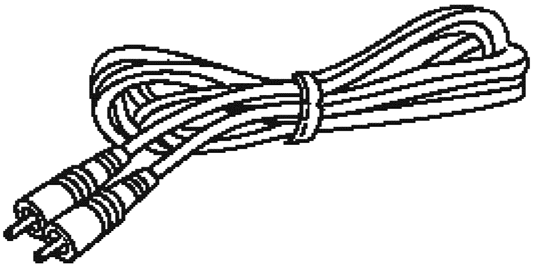
AM Loop Antenna



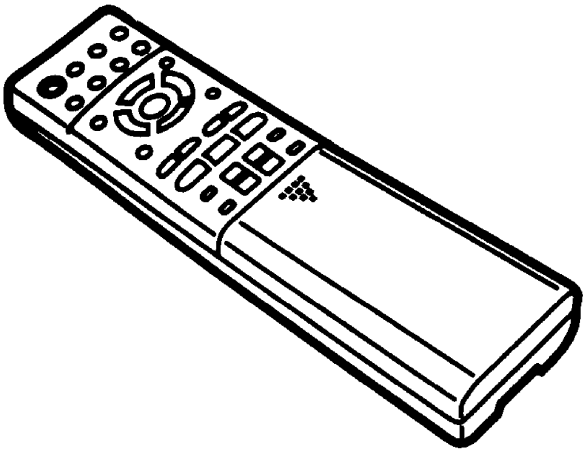
FM Indoor Antenna



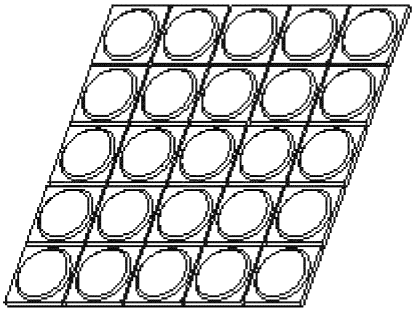
Video Connection Cable



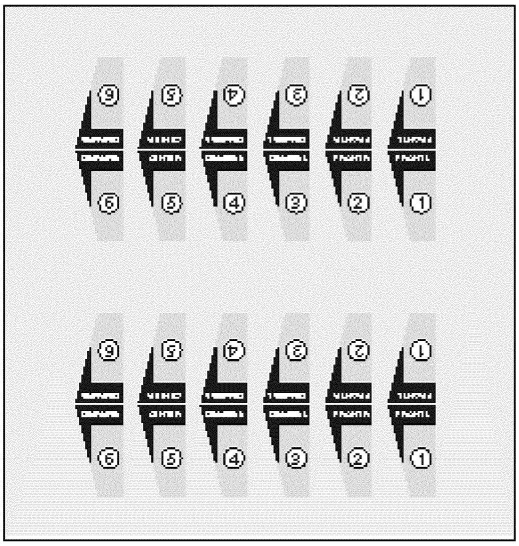
Remote Control Transmitter



Speaker feet

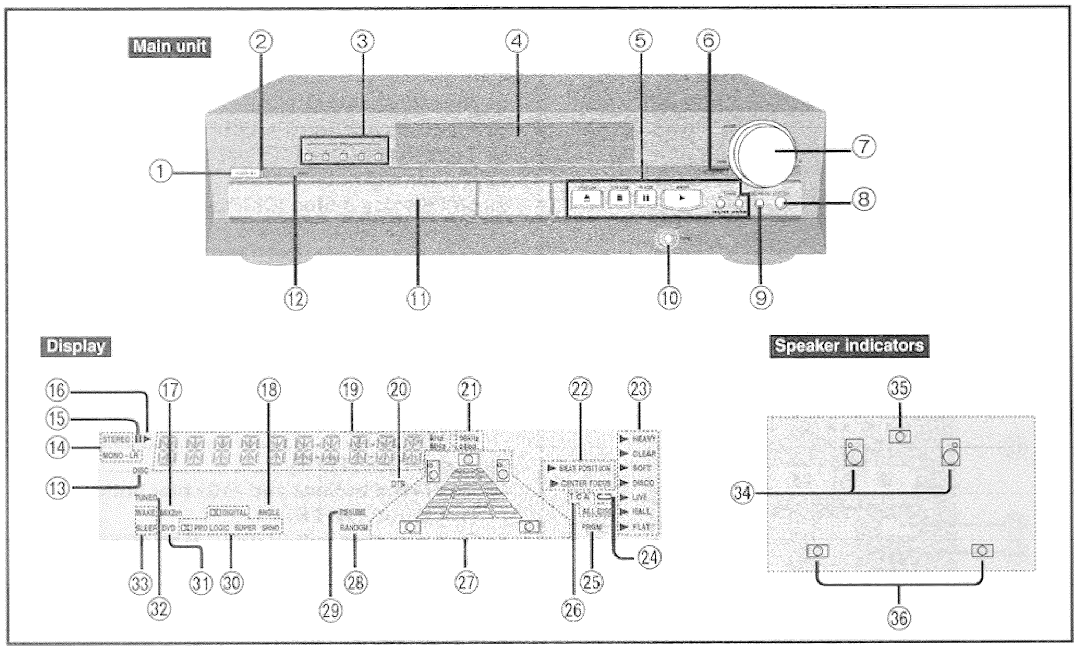


Speaker stickers



4. Operation Procedures

Front panel controls


Main unit
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⑫
Display
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STEREO
MONO-LR
DISC
TUNED
WAKE
SLEEP
MIX2ch
DVD
DIGITAL
ANGLE
PRO LOGIC
SUPER SRND
RESUME
RANDOM
DTS
kHz
MHz
96kHz
24bit
SEAT POSITION
CENTER FOCUS
T C A
ALL DISC
PRGM
HEAVY
CLEAR
SOFT
DISCO
LIVE
HALL
FLAT
Speaker indicators
㉞
㉟
㊱

No. Name

Main unit

① **Standby/on switch (POWER ⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② **Standby/on indicator**
When the unit is connected to the AC mains supply, this indicator lights red in standby mode and lights green when the unit is turned on.

③ **Disc select buttons (DISC 1–5)**
④ **Display**
⑤ **Basic operation buttons**
⑥ **Dolby Digital indicator (ᗡD DIGITAL)**
⑦ **Volume control (VOLUME)**
⑧ **Input select button (SELECTOR)**
⑨ **Subwoofer level button (SUBWOOFER LEVEL)**
⑩ **Headphones jack (PHONES)**
⑪ **Disc tray**
⑫ **Wake timer indicator (WAKE)**

Display

⑬ **Disc indicator**
⑭ **Stereo/mono indicator**
⑮ **Pause (Still picture) indicator**
⑯ **Play indicator**
⑰ **MIX 2ch indicator**

No. Name

⑱ **Angle indicator**
⑲ **General display**
⑳ **DTS indicator**
Lights when a disc with DTS is loaded.

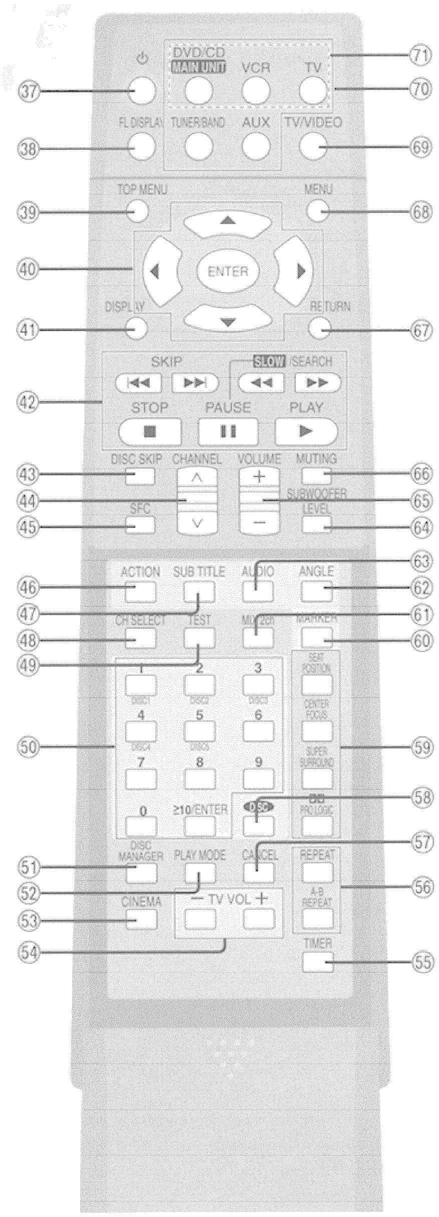
㉑ **DVD disc signal indicator**
㉒ **Surround effect indicators**
㉓ **SFC mode indicators**
㉔ **Repeat indicator**
㉕ **Program indicator**
㉖ **Track/Chapter/All disc indicators**
㉗ **Speaker indicators**
㉘ **Random indicator**
㉙ **Resume indicator**
㉚ **Sound field system indicators**
㉛ **DVD disc indicator**
Lights when DVD is loaded.

㉜ **Radio indicator**
㉝ **Timer indicators**

Speaker indicators

㉞ **Front speakers**
㉟ **Center speaker**
㊱ **Surround speakers**

Lights when sound is actually coming from the speaker.



DVD/CD
MAIN UNIT
VCR
TV
FL DISPLAY
TUNER/BAND
AUX
TV/VIDEO
TOP MENU
MENU
ENTER
DISPLAY
RETURN
SKIP
SLOW/SEARCH
STOP
PAUSE
PLAY
DISC SKIP
CHANNEL
VOLUME
MUTING
SFC
SUBWOOFER LEVEL
ACTION
SUB TITLE
AUDIO
ANGLE
CH SELECT
TEST
MIX 2ch
MARKER
SEAT POSITION
CENTER FOCUS
SUPER SURROUND
PRO LOGIC
DISC1
DISC2
DISC3
DISC4
DISC5
≥10/ENTER
DISC
DISC MANAGER
PLAY MODE
CANCEL
REPEAT
A-B REPEAT
CINEMA
TV VOL
TIMER
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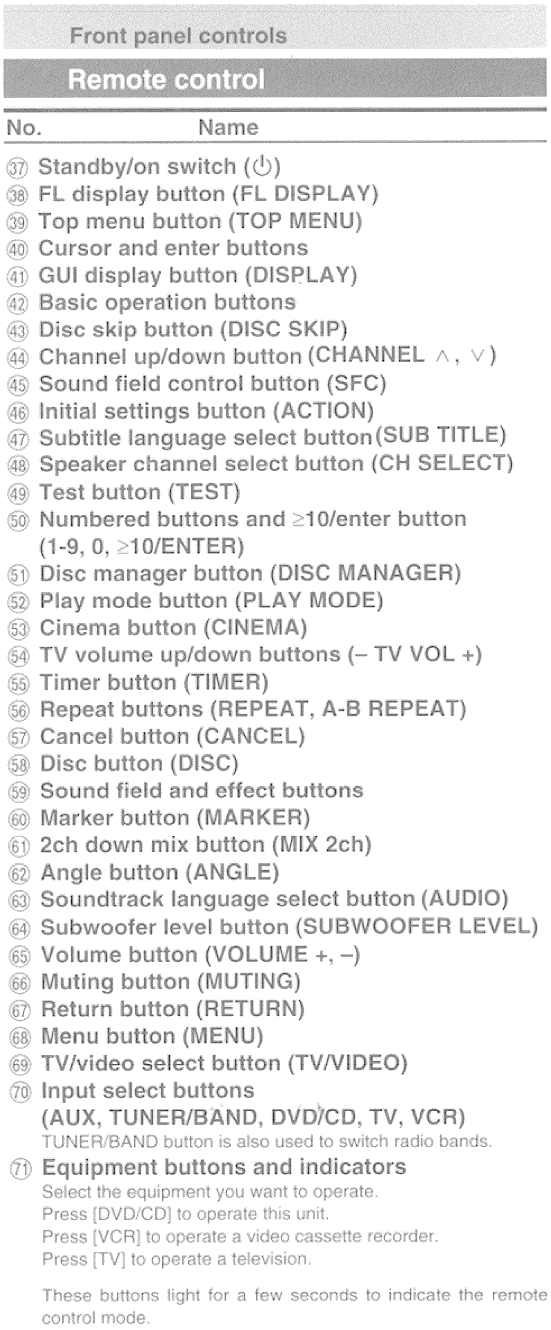

Front panel controls

Remote control

No.	Name
㊲	Standby/on switch (⏻)
㊳	FL display button (FL DISPLAY)
㊴	Top menu button (TOP MENU)
㊵	Cursor and enter buttons
㊶	GUI display button (DISPLAY)
㊷	Basic operation buttons
㊸	Disc skip button (DISC SKIP)
㊹	Channel up/down button (CHANNEL ∧, ∨)
㊺	Sound field control button (SFC)
㊻	Initial settings button (ACTION)
㊼	Subtitle language select button (SUB TITLE)
㊽	Speaker channel select button (CH SELECT)
㊾	Test button (TEST)
㊿	Numbered buttons and ≥10/enter button (1-9, 0, ≥10/ENTER)
(51)	Disc manager button (DISC MANAGER)
(52)	Play mode button (PLAY MODE)
(53)	Cinema button (CINEMA)
(54)	TV volume up/down buttons (– TV VOL +)
(55)	Timer button (TIMER)
(56)	Repeat buttons (REPEAT, A-B REPEAT)
(57)	Cancel button (CANCEL)
(58)	Disc button (DISC)
(59)	Sound field and effect buttons
(60)	Marker button (MARKER)
(61)	2ch down mix button (MIX 2ch)
(62)	Angle button (ANGLE)
(63)	Soundtrack language select button (AUDIO)
(64)	Subwoofer level button (SUBWOOFER LEVEL)
(65)	Volume button (VOLUME +, –)
(66)	Muting button (MUTING)
(67)	Return button (RETURN)
(68)	Menu button (MENU)
(69)	TV/video select button (TV/VIDEO)
(70)	Input select buttons (AUX, TUNER/BAND, DVD/CD, TV, VCR) TUNER/BAND button is also used to switch radio bands.
(71)	Equipment buttons and indicators Select the equipment you want to operate. Press [DVD/CD] to operate this unit. Press [VCR] to operate a video cassette recorder. Press [TV] to operate a television. These buttons light for a few seconds to indicate the remote control mode.

5. Handling Precaution for Traverse Deck (Optical Pickup)

The laser diode inside the traverse deck (optical pickup) may experience electrostatic damage when subjected to electric potential difference from electrostatic load stored in clothes or human body, etc. Adequate care against electrostatic damage should be taken when carrying out repair..

5.1. Handling of optical pickup

1. The optical pickup is made up of a very high precision structure. Ensure that it is not subjected to strong shocks.
2. To prevent electrostatic damage to the laser diode, short circuit the flexible board of the optical pickup with a shorting pin, etc. when removed from the board. (Refer Fig. 1)
3. The flexible board may tear if unnecessary force is exerted on it. Therefore, handle the flexible board with extreme care. (Refer Fig. 2)

4. Do not turn the semi-fixed variable resistor (laser power adjustment). It has already been adjusted.

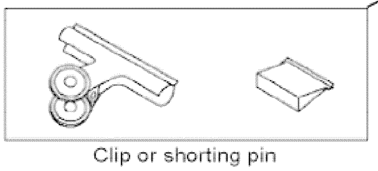

Clip or shorting pin

Fig. 1

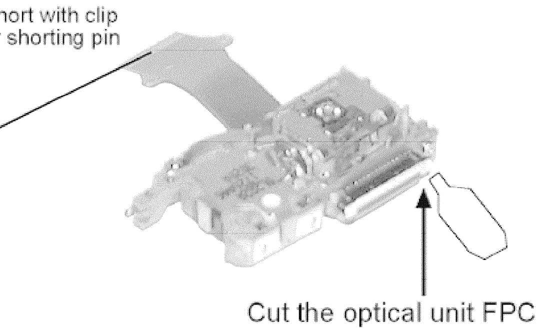

Short with clip
or shorting pin
Cut the optical unit FPC

Fig. 2

5.2. Replacement of Optical Pickup

Cut the optical unit FPC at the point shown above before replacement.

5.3. Earthing to prevent electrostatic damage

1. Human body earthing
   Use the electric charge prevention wrist strap to drain off static electricity stored in the human body.(Refer Fig. 3)
2. Earthing of work table
   Lay conductive material (conductive sheet) or steel plate on the location where the traerse deck (optical pickup) is to be situated and ensure that it is earthed. (Refer Fig. 4).

Caution :

The static electricity stored in clothes cannot be drained with the wrist strap. Ensure that clothing does not get into contact with the optical pickup.

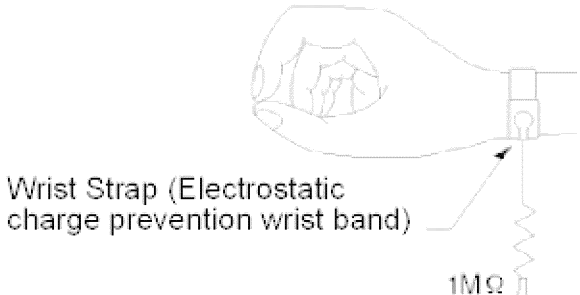

Wrist Strap (Electrostatic
charge prevention wrist band)
1MΩ

Fig. 3

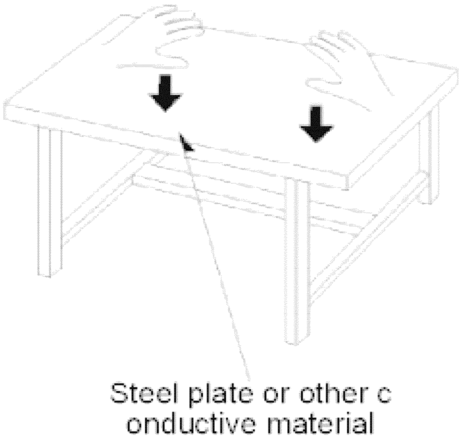

Steel plate or other c
onductive material

Fig. 4

6. Precaution of Laser Diode

CAUTION :

This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
When the unit is turned on :

1. Do not look directly into the pick up lens.
2. Do not use optical instruments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pickup lens.

4. Do not disassemble the optical pick up unit.
5. If the optical pick up is replaced, use the manufacturer’s specified replacement pick up only.
6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

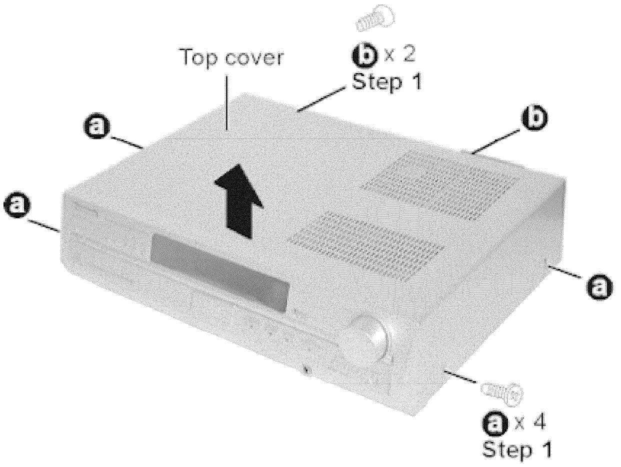
7. Disassembly and Main Component Replacement Procedures

“ATTENTION SERVICER”

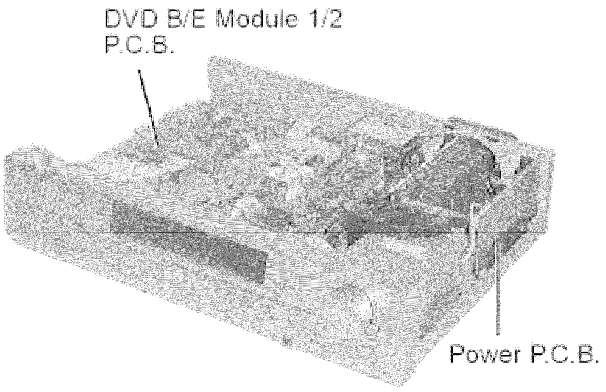
Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

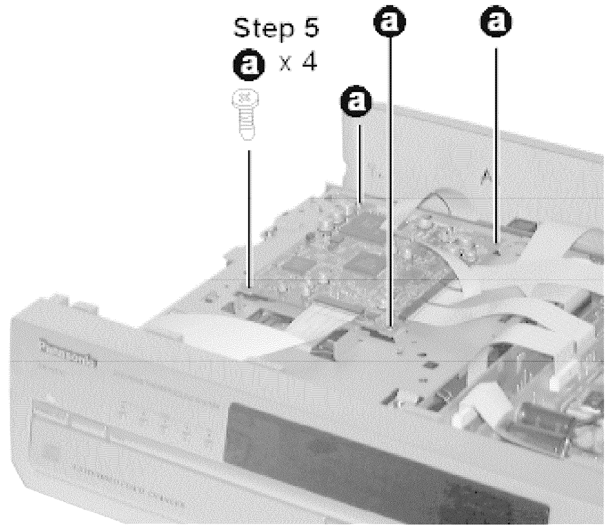
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

7.1. Checking for DVD B/E Module (1/2) and Power Switch P.C.B..

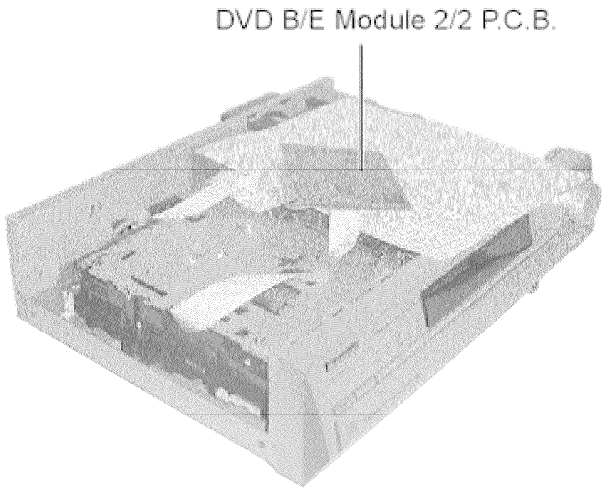


Step 3 Slightly spread open both sides of the cabinet before lifting it upwards to remove.
- Carry out the check for DVD B/E Module (1/2) board, AC input board as per condition indicated in diagram below.


DVD B/E Module 1/2
P.C.B.
Power P.C.B.


Step 5
a x 4
a
a
a

Step 6 Remove FFC from connector. (FP2001)


DVD B/E Module 2/2 P.C.B.

Step 7 Overturn DVD B/E Module (2/2) P.C.B..

Step 8 Connect back extension FFC to connector. (FP2001)

- Carry out check for DVD Module (2/2) board as per condition in diagram below.

[Caution] Lay thick paper below the board.

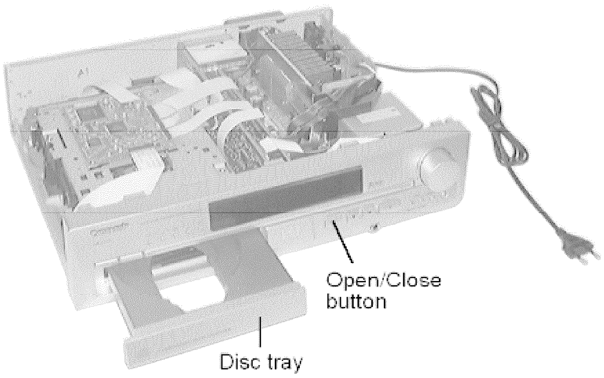
7.2. Checks for Panel P.C.B., DSP P.C.B., ASP P.C.B., DVD B/E Module (2) P.C.B.

- Carry out (Step 1) - (Step 3) in section 7.1

Step 1 Open the disc tray. There are 2 methods of opening the disc tray, i.e., electrical and manual.

7.2.1. When opening electrically

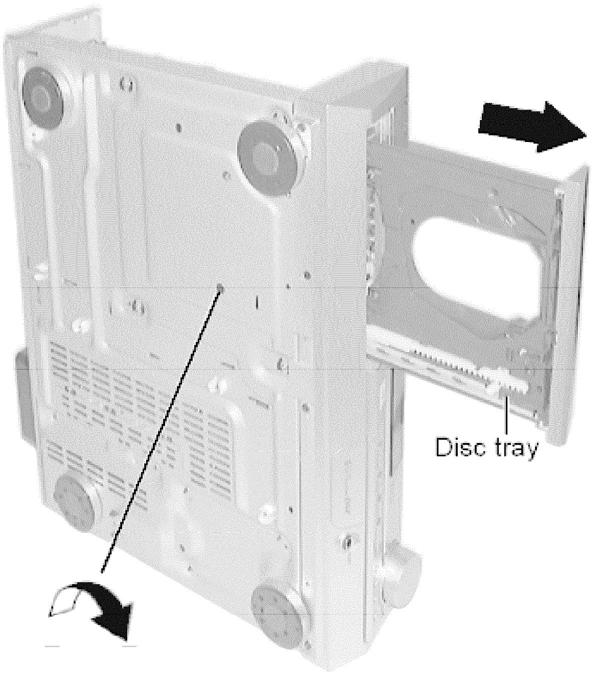
Step 1 Connect the AC cord and turn on the power supply.

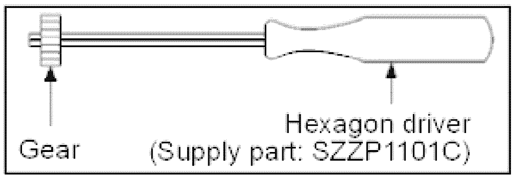

Open/Close
button
Disc tray

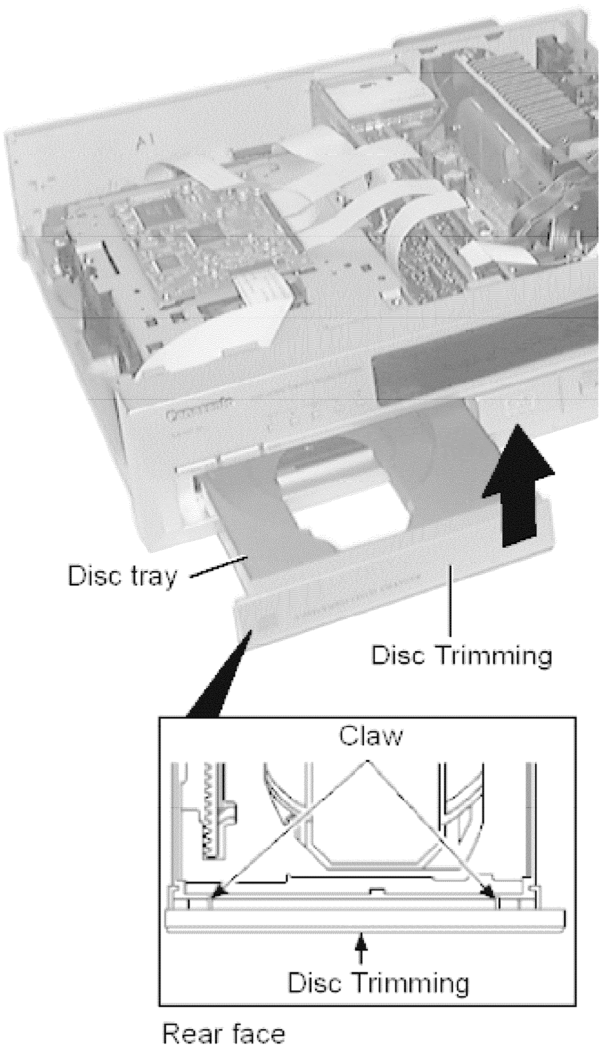
Step 2 Press OPEN/CLOSE button to open the disc tray.

7.2.2. When opening manually

Step 1 Insert the hexagon driver (gear bit) into the hole at the bottom face of the main body and turn it in the direction of the arow to open the disc tray.

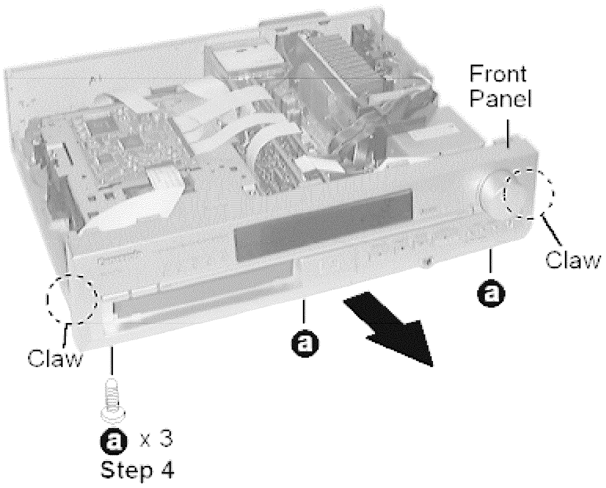



Gear
Hexagon driver
(Supply part: SZZP1101C)

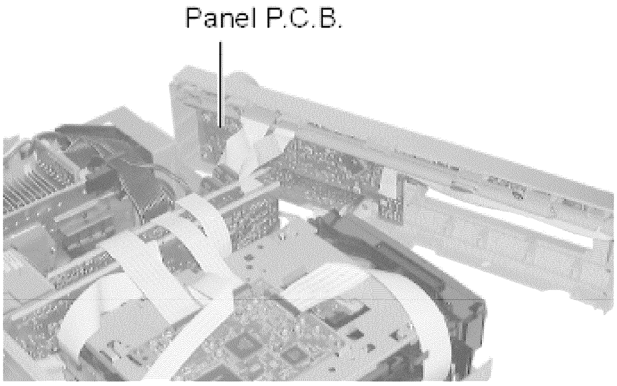

Disc tray
Disc Trimming
Claw
Disc Trimming
Rear face

Step 2 Release claw at 2 locations and remove tray trimming.

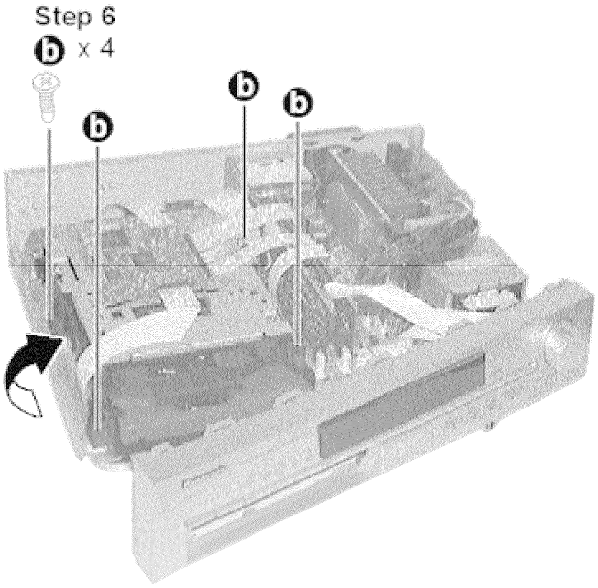
Step 3 After removing the tray trimming, push the disc tray back inside the main unit.


Front Panel
Claw
a
a
Claw
a x 3
Step 4

Step 5 Release claw at 2 locations and pull out the front panel.

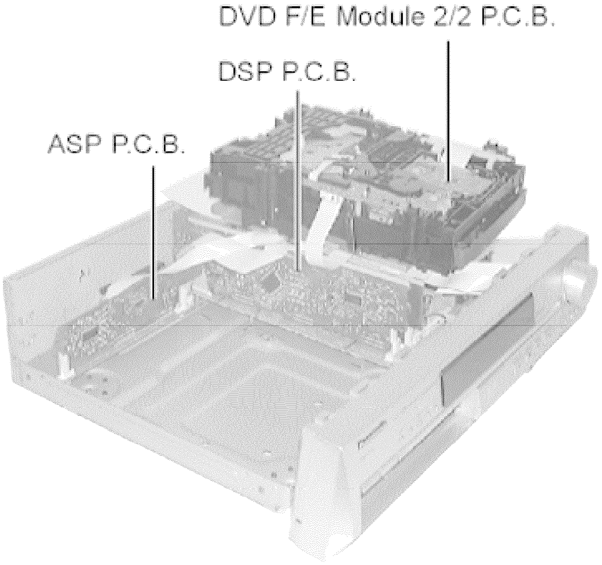


- Carry out checks with Panel P.C.B. in the condition as indicated in diagram above.


Step 6
b x 4
b
b
b

Step 6 Over turn the DVD F/E module loading unit in the direction of arrow.

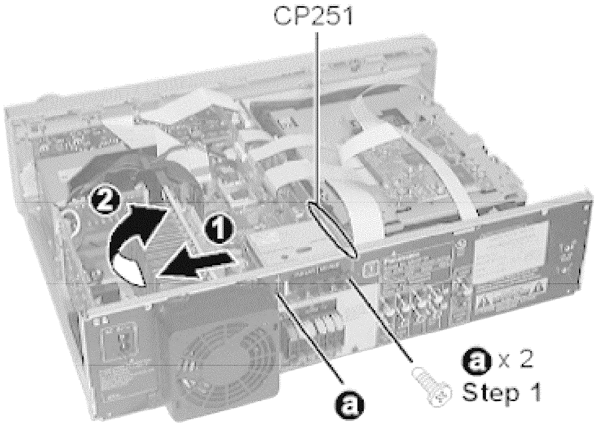
- Carry out checks with DSP P.C.B. and ASP P.C.B. in the condition as indicated in diagram below.


DVD F/E Module 2/2 P.C.B.
DSP P.C.B.
ASP P.C.B.

[Caution] Lay thick paper below the board.

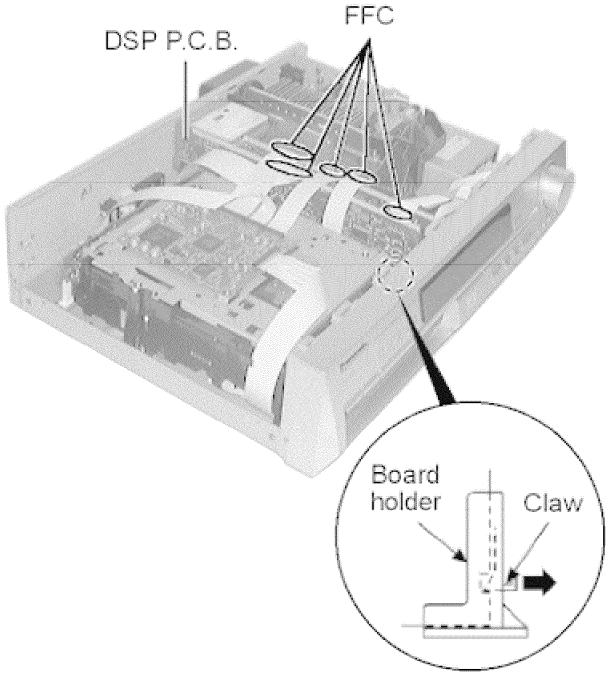
7.3. Checks for DVD Regulator P.C.B.

- Carry out (Step 1) - (Step 3) in section 7.1


CP251
2
1
a x 2
Step 1
a

Step 2 Pull the tuner unit in direction of arrow(1). Disengage it from connector and remove in direction of arrow (2).

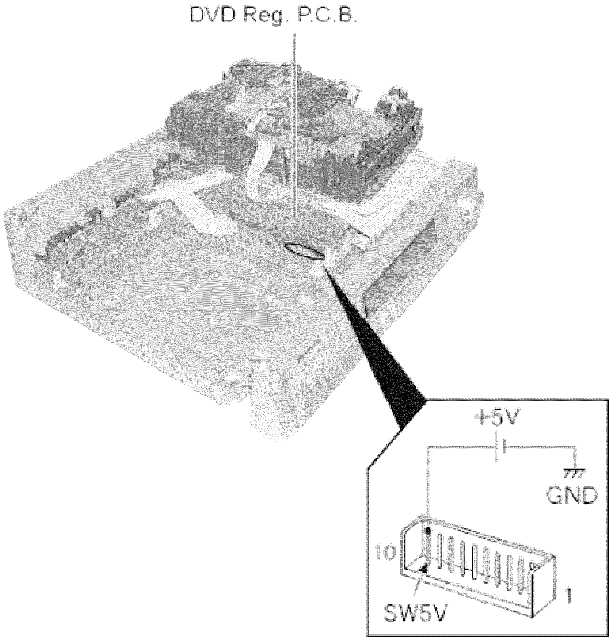
Step 3 Pull out FFC at CN805, CN806, CN1, CP6251 and CN1304.


DSP P.C.B.
FFC
Board holder
Claw

Step 4 Detach DSP P.C.B. while removing tab on board holder.

Step 5 Connect back FFC at CN1, CP6251 and CN1304.

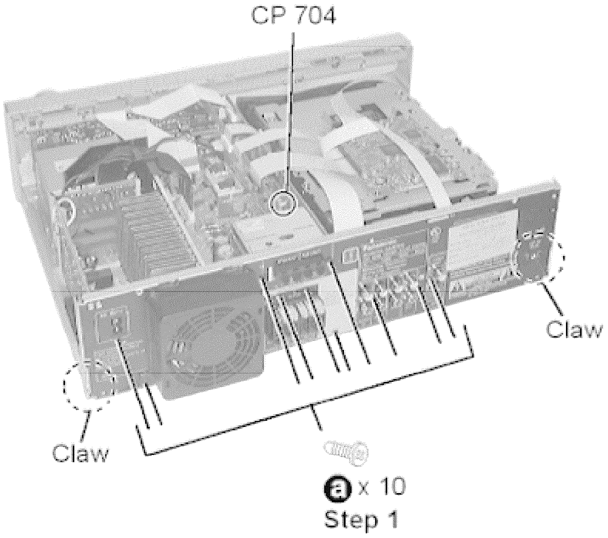
- **Carry out checks with DVD Regulator P.C.B. in the condition as indicated in diagram below.**


DVD Reg. P.C.B.
+5V
GND
10
1
SW5V

Step 6 Supply +5V from external power source to pin 10 terminal of connector (CP801) on main board.

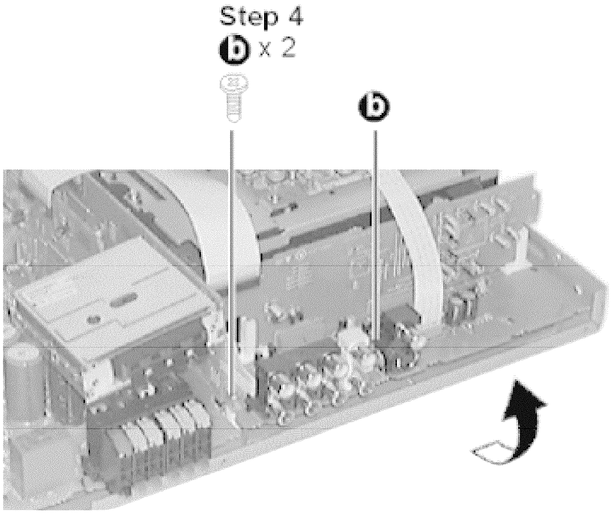
7.4. Checks for Input P.C.B.

- Carry out (Step 1) - (Step 3) in section 7.1


CP 704
Claw
Claw
a x 10
Step 1

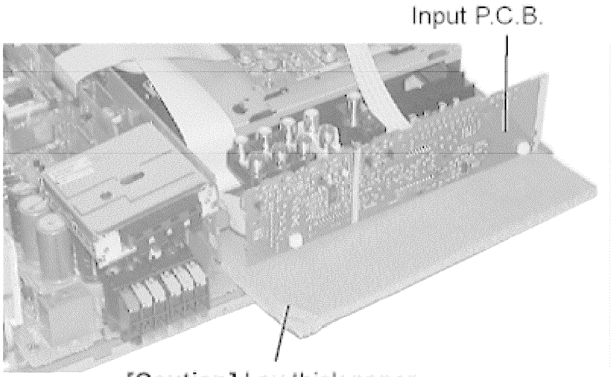
Step 2 Unplug connector (CP704).

Step 3 Remove claw at 2 locations and detach the rear panel.



Step 5 Let the Input P.C.B. stand up.

- Carry out chaecks with Input P.C.B. in the condition as indicated in the diagram below.

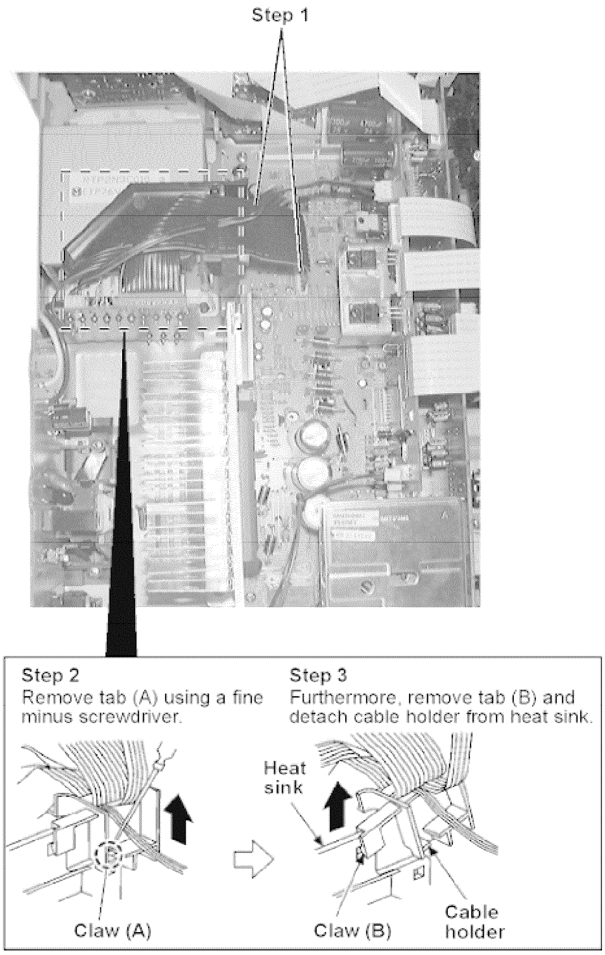


[Caution] Lay thick paper.

7.5. Check for Power P.C.B.

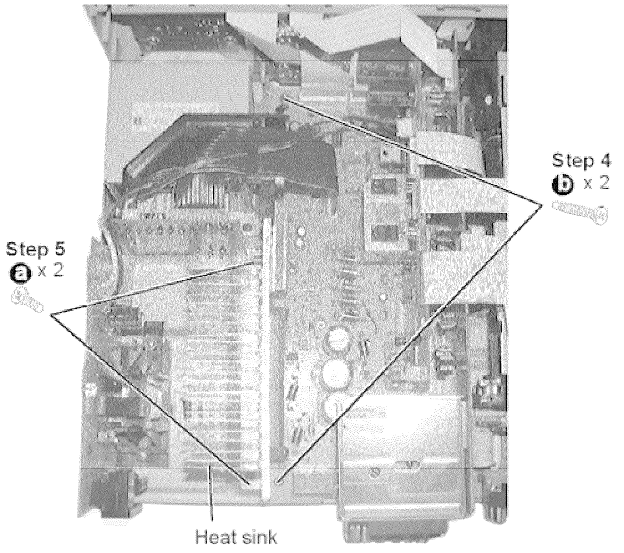
- Carry out (Step 1) - (Step 3) in section 7.1
- Carry out (Step 1) - (Step 3) in section 7.4

Step 1 Remove connector at CP705, CN503 and CN501.

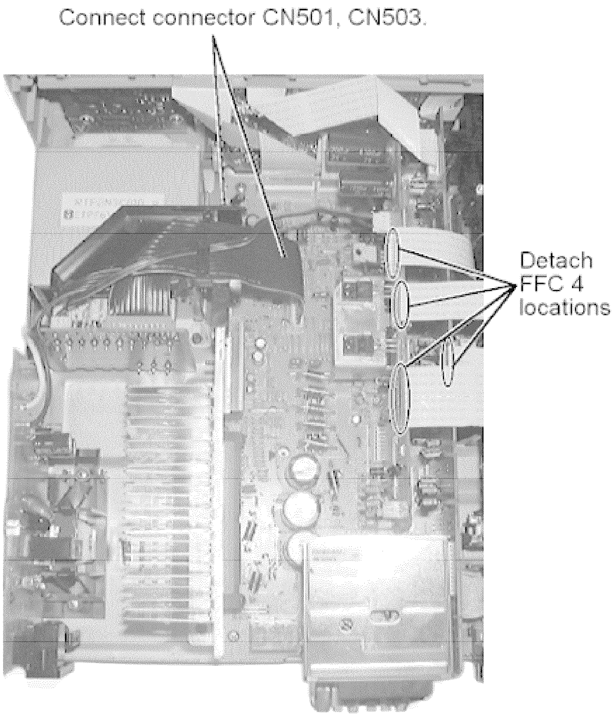

Step 1
Heat sink
Claw (A)
Claw (B)
Cable holder

Step 2
Remove tab (A) using a fine minus screwdriver.

Step 3
Furthermore, remove tab (B) and detach cable holder from heat sink.


Step 4
ⓑ x 2
Step 5
ⓐ x 2
Heat sink

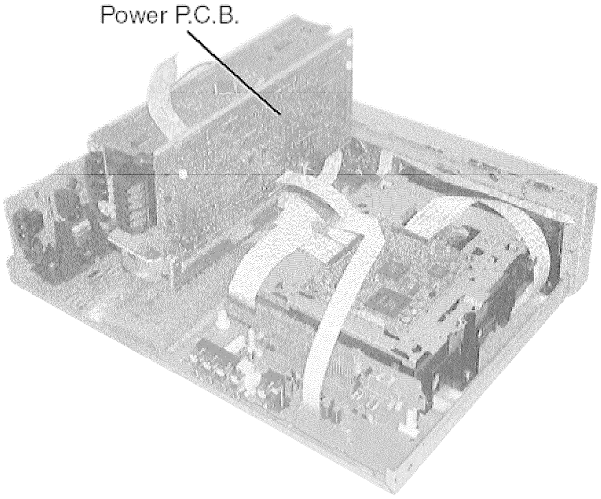
Step 6 Connect back connector at CN501 and CN503.


Connect connector CN501, CN503.
Detach FFC 4 locations

Step 7 Remove wire from connector CN102.

Step 8 Detach FFC at CN1, CP6251, CN1304 and CN806.

- Carry out checks with Power P.C.B. in the condition as indicated in the diagram below.

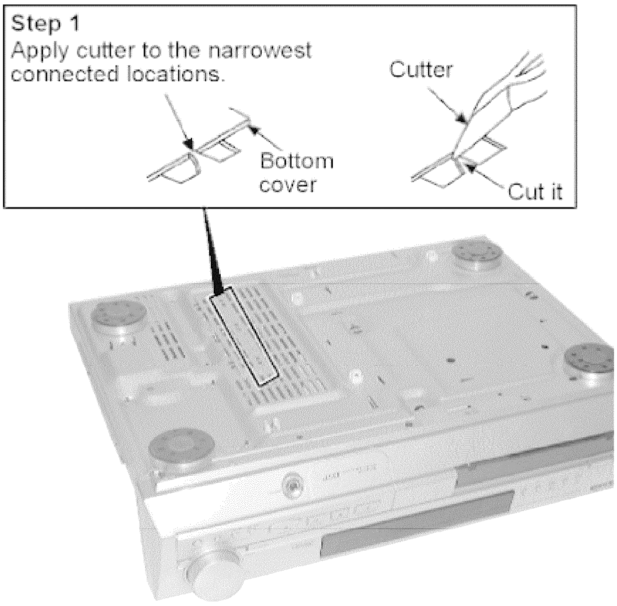


Step 9 Let the Main P.C.B. stand up.

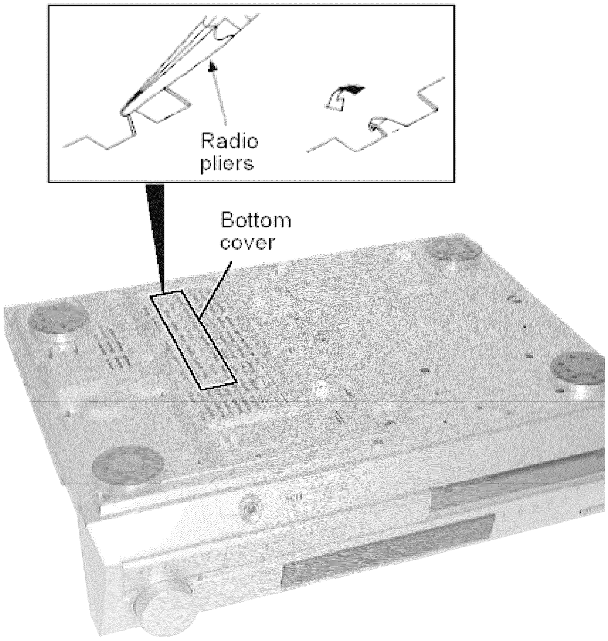
7.6. Replacement of the Power IC

- Carry out (Step 1) - (Step 3) in section 7.1

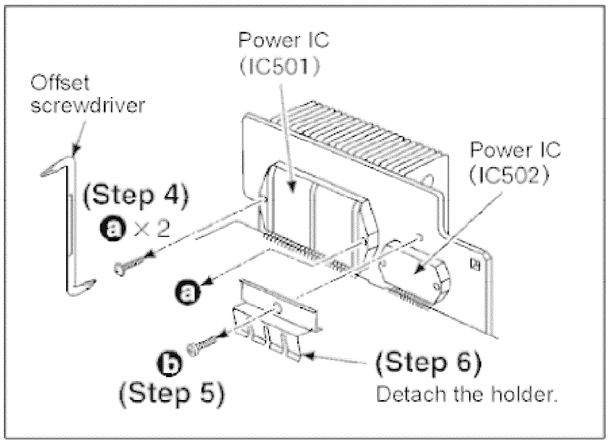
Step 1 Cut out the connections located on the bottom cover. (6 points)


Step 1
Apply cutter to the narrowest connected locations.
Cutter
Bottom cover
Cut it

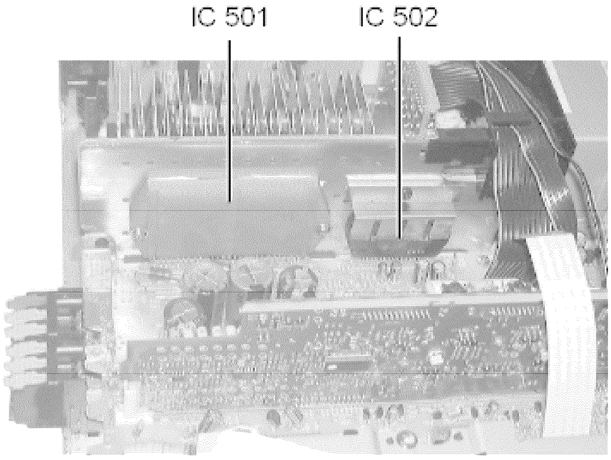
[Caution] The bottom cover is reused after replacement . Take care, not to lose it.


Radio pliers
Bottom cover

Step 2 Bent the cut portion on the bottom cover.


Power IC (IC501)
Offset screwdriver
Power IC (IC502)
(Step 4)
ⓐ × 2
ⓐ
ⓑ
(Step 5)
(Step 6)
Detach the holder.

Step 3 Remove solder on Power IC.

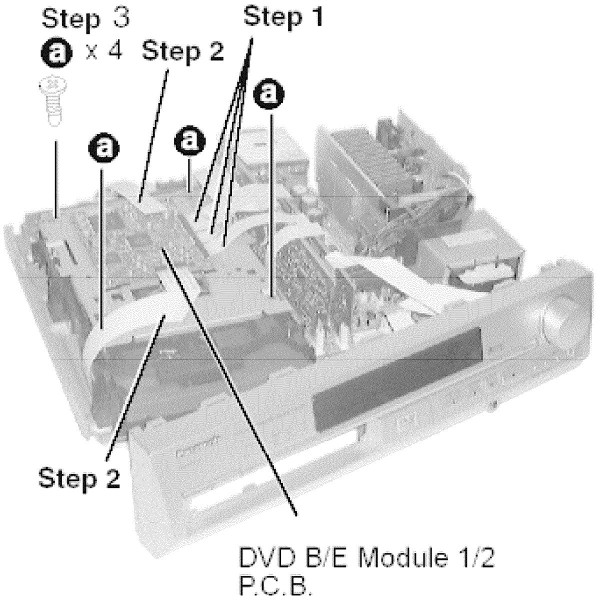

IC 501
IC 502

[Caution]

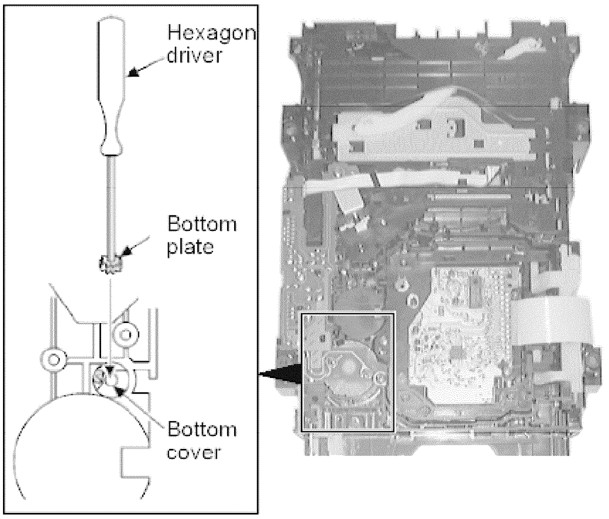
1. Apply compound grease (RFKX0002 or equivalent heat dissipating compound) on the rear face of the power IC when attaching Power IC.
2. Tighten adequately the 3 screws after replacement of Power IC.
3. Use the offset screwdriver for tightening and loosening of screws.

7.7. Replacement of DVD Traverse Unit

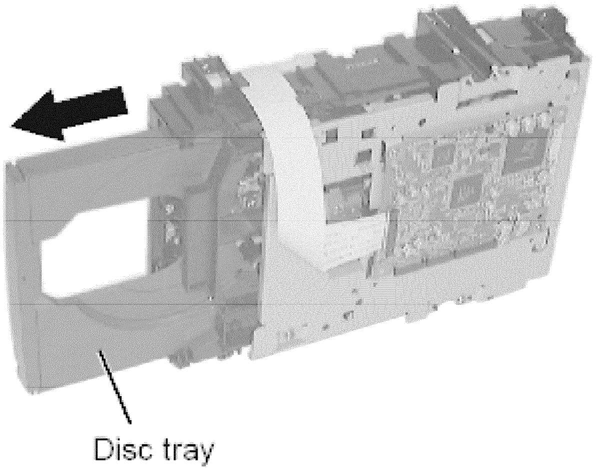
- Carry out (Step 1) - (Step 3) in section 7.1
- Carry out (Step 1) - (Step 6) in section 7.2


Step 3
a x 4
Step 2
Step 1
a
a
a
Step 2
DVD B/E Module 1/2
P.C.B.

Step 1 Pull out the FFC at 3 locations.
Step 2 Detach the connector.
Step 3 Detach the DVD loading unit.
Step 4 Remove the top plate.


Hexagon driver
Bottom plate
Bottom cover

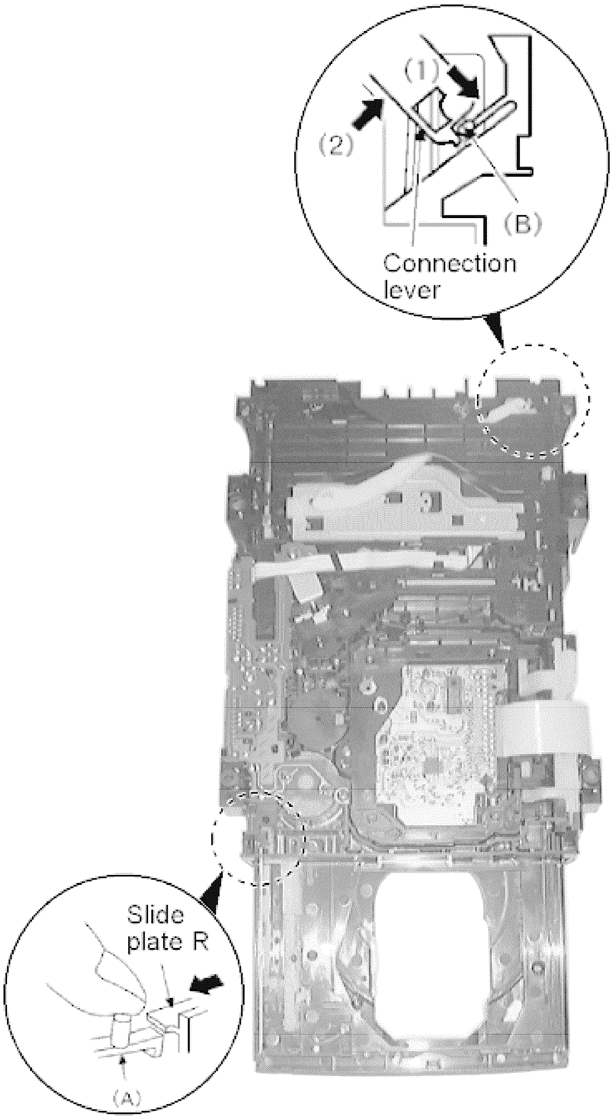
Step 5 Insert the hexagon driver (gear) into the hole.



Step 6 Turn the hexagon driver clockwise to fully open the disc tray.

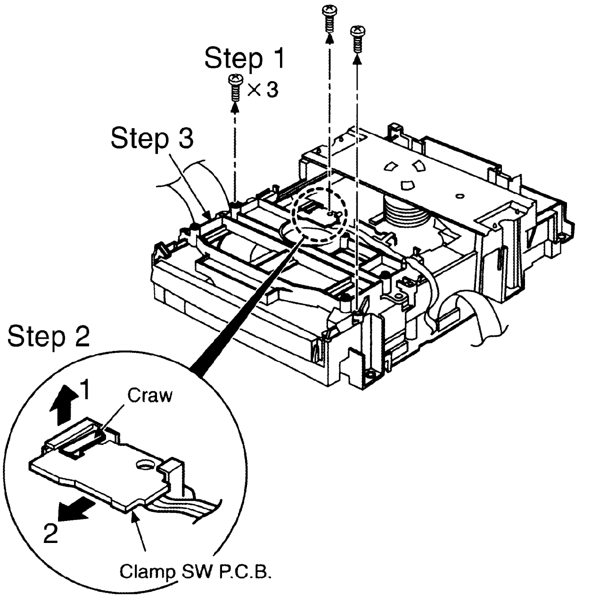
Step 7 When tab (B) is pressed in direction of arrow(1), the connection lever moves in the direction of arrow (2).

Step 8 Turn the hexagon driver clockwise with tab (A) in depressed condition.

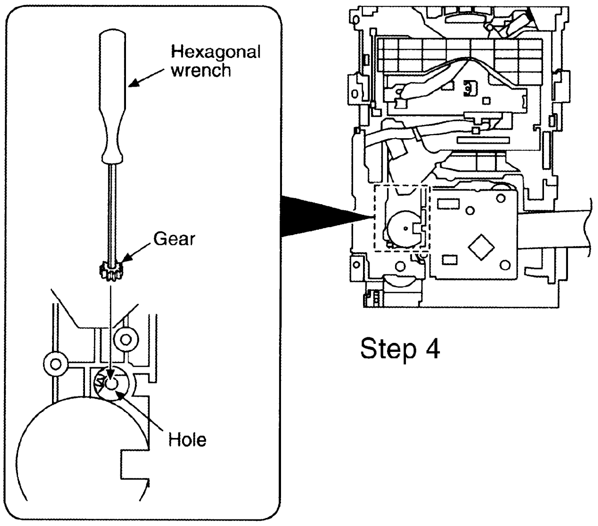

(1)
(2)
(B)
Connection lever
Slide plate R
(A)

Step 10 Let the Main P.C.B. stand up.

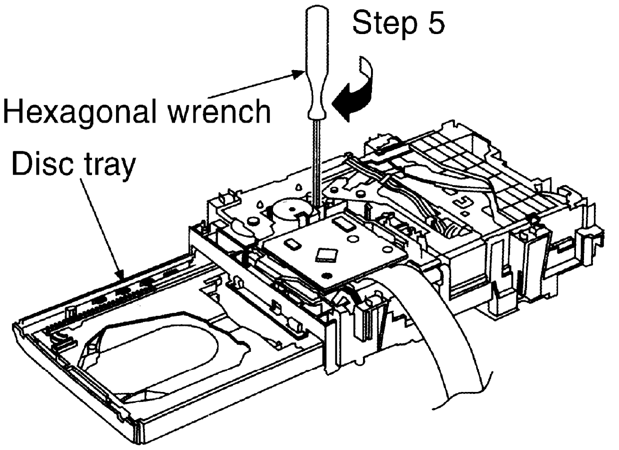
7.8. Disassembly and assembly of the Disc Tray


Step 1
×3
Step 3
Step 2
1
Craw
2
Clamp SW P.C.B.

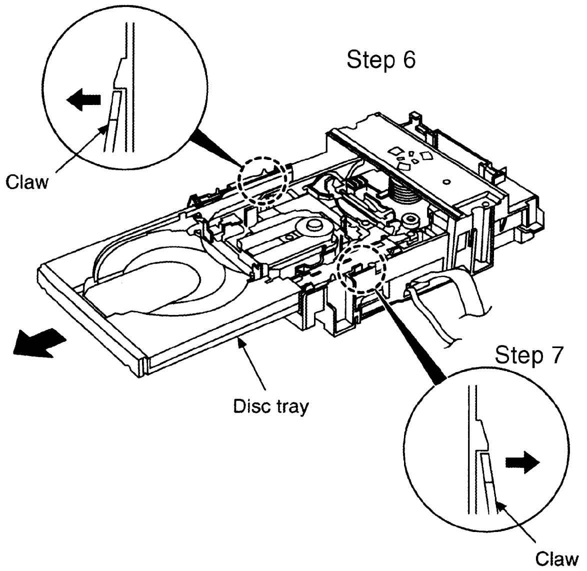
Step 2 With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.
Step 3 Remove the mechanism cover.


Hexagonal wrench
Gear
Hole
Step 4

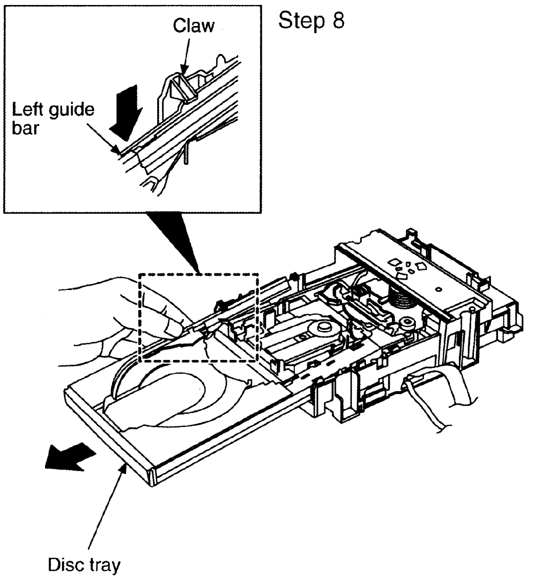
Step 4 Insert the gear with hexagonal wrench into the hole.


Step 5
Hexagonal wrench
Disc tray

Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.

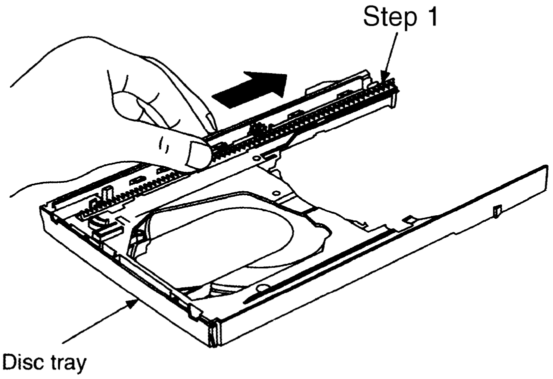

Step 6
Claw
Disc tray
Step 7
Claw

Step 6 Upset the CD changer unit again.
Step 7 Release both the claws, and then draw the disc tray.

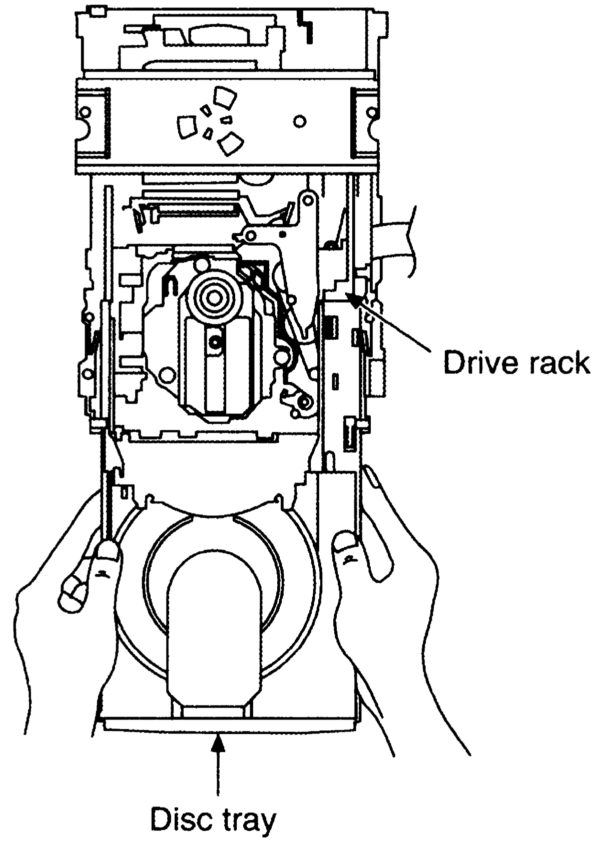

Claw
Step 8
Left guide bar
Disc tray

Step 8 With forcing the left guide bar manually because the left guide bar interfers with claw, draw the disc tray.

- **Installation of the disc tray after replacement**


Step 1
Disc tray

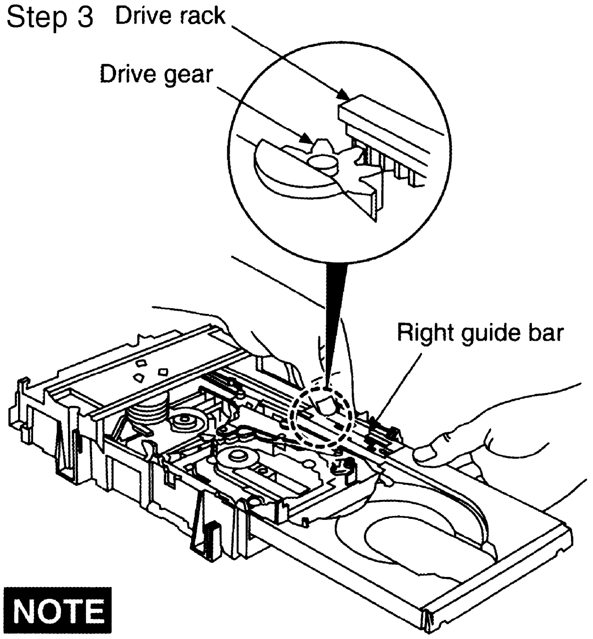
Step 1 Slide the drive rack fully in the direction of arrow.


Drive rack
Disc tray

Step 2

Step 2 Holding the drive rack not to move, install the disc tray.

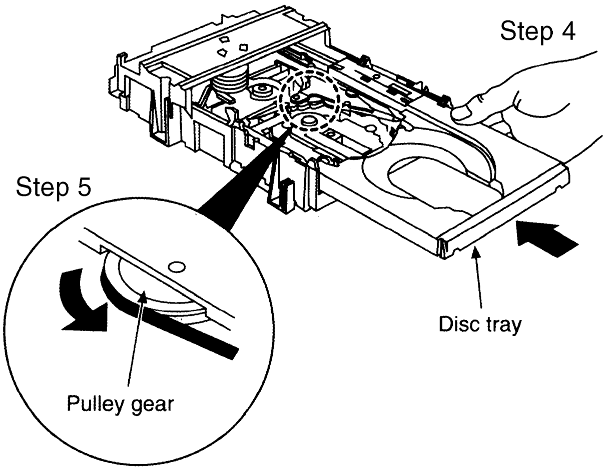
Step 3


Drive rack
Drive gear
Right guide bar

NOTE

Force the right guide bar of tray base manually not to move upwards.

Step 3 Align the drive rack with the driver gear.

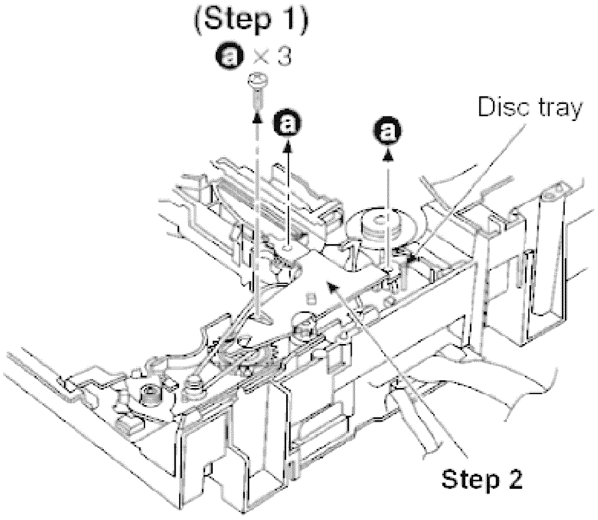

Step 4
Step 5
Disc tray
Pulley gear

Step 4 Holding the disc tray manually, rotate the pulley gear in the direction of arrow.
Step 5 Rotate the gear 5 or 6 times manually, and then push the disc tray.

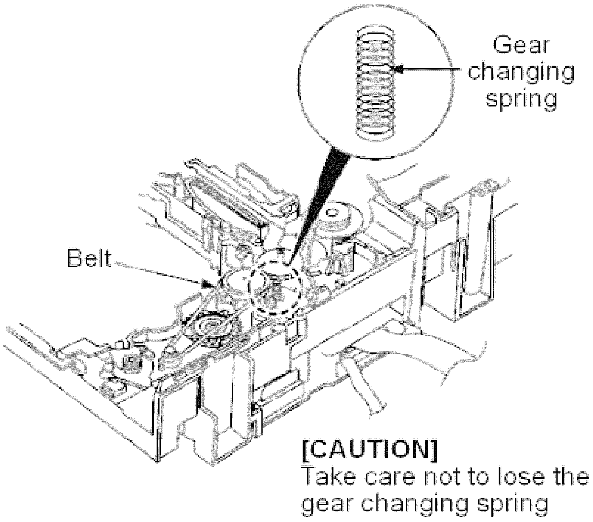
7.9. Disassembly and assembly of Mechanised Dirve part

7.9.1. Disassmbly of Mechanised Drive Part

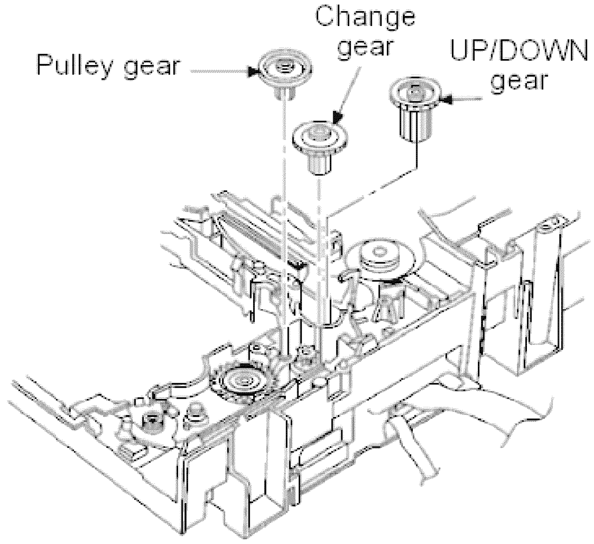
- Carry out (Step 1) - (Step 3) in section 7.1
- Carry out (Step 1) - (Step 6) in section 7.2
- Carry out (Step 1) - (Step 10) in section 7.7
- Carry out (Step 1) - (Step 8) in section 7.8


(Step 1)
a × 3
a
a
Disc tray
Step 2

Step 2 Remove tab at 1 location and detach the pitch plate.

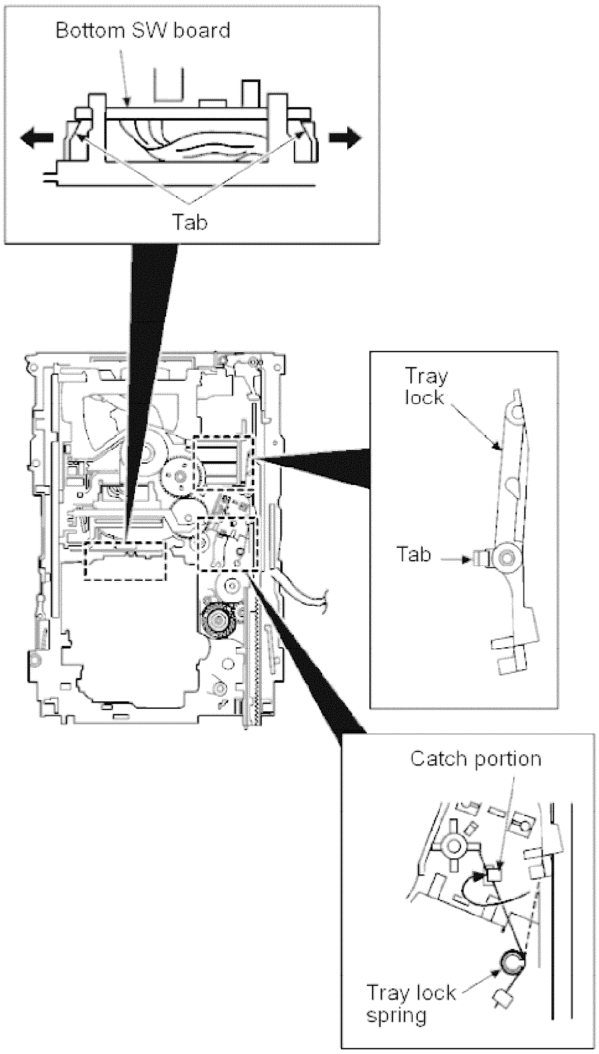

Gear changing spring
Belt
[CAUTION]
Take care not to lose the gear changing spring

Step 3 Remove belt and gear changing spring.

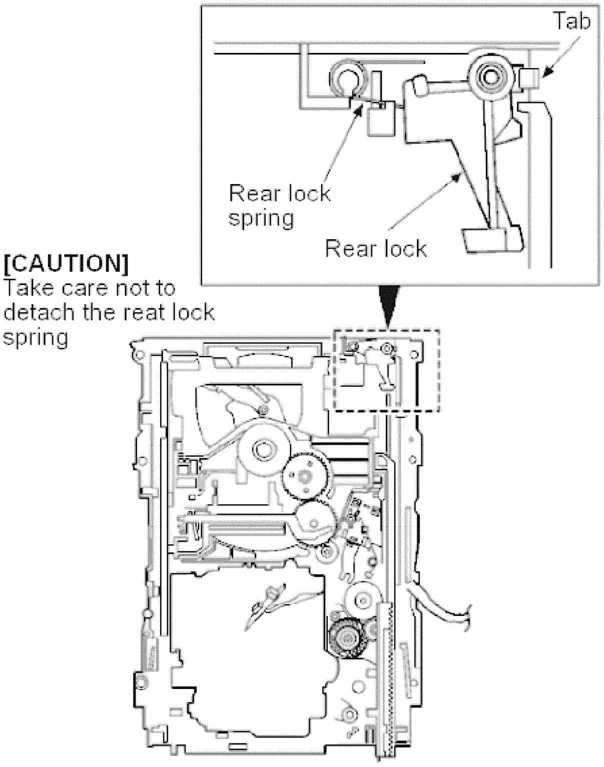

Change gear
Pulley gear
UP/DOWN gear

Step 4 Remove pulley gear, change gear, UP/DOWN gear.

Step 5 Remove tab at 2 locations and detach the bottom SW board.

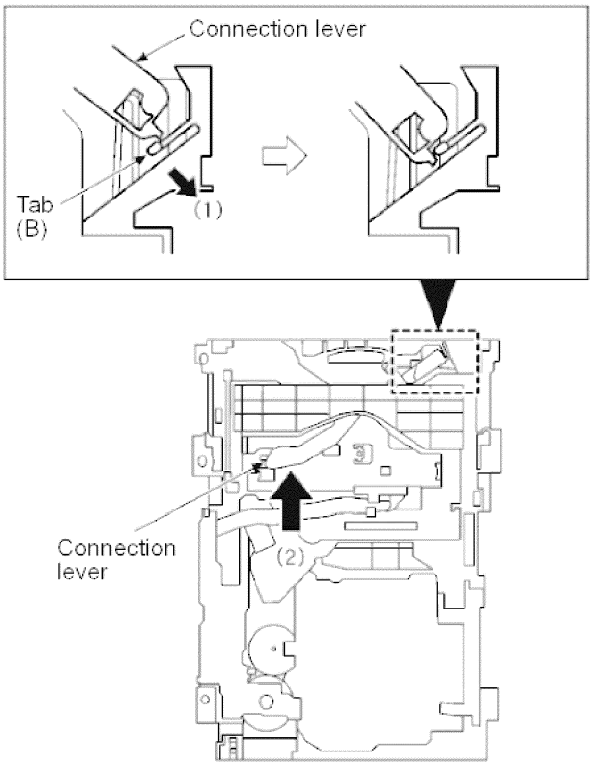

Bottom SW board
Tab
Tray lock
Tab
Catch portion
Tray lock spring

Step 6 Temporarily attach the tray lock spring to the catch portion.
Step 7 Remove tab 1 location and detach tray lock.

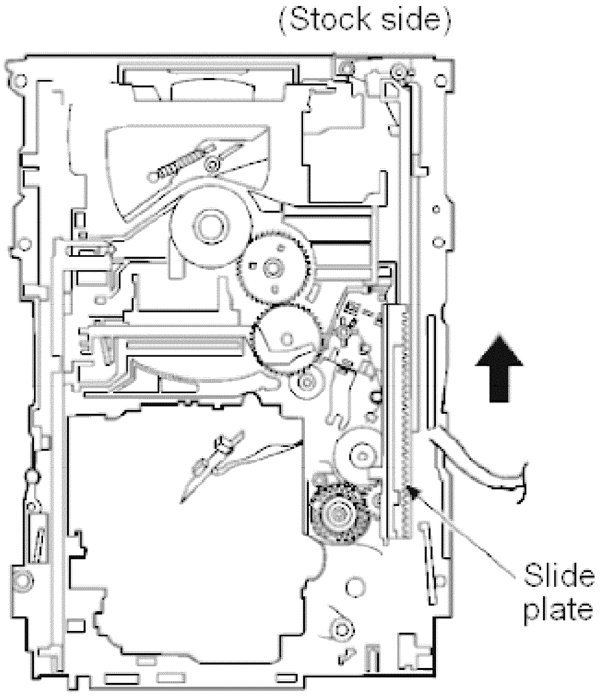

Tab
Rear lock spring
Rear lock

[CAUTION]
Take care not to detach the reat lock spring

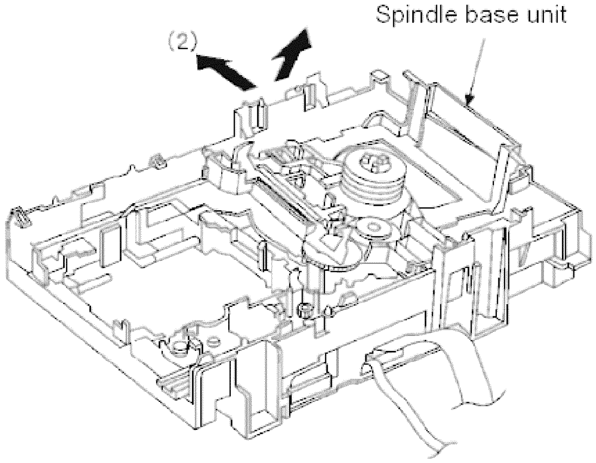
Step 8 Remove tab 1 location and then remove the rear lock.


Connection lever
Tab (B)
(1)
Connection lever
(2)

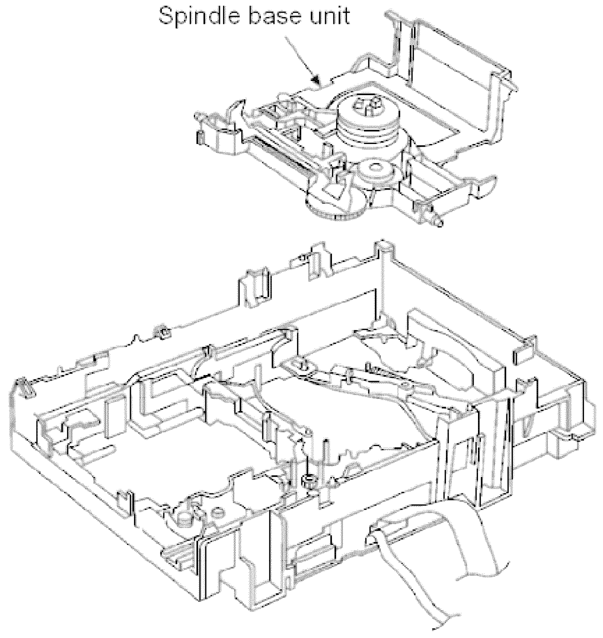
Step 9 While pressing tab (B) in direction of arrow (1), press down the connection lever in direction of arrow (2).

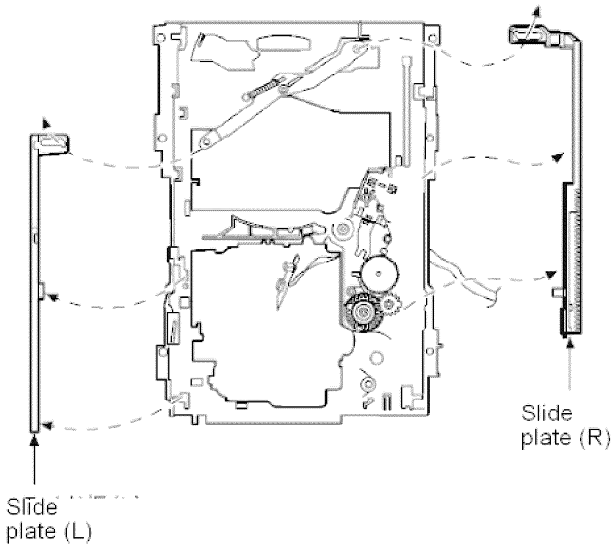

(Stock side)
Slide plate

Step 10 Move slide plate (R) until the edge of stock side.

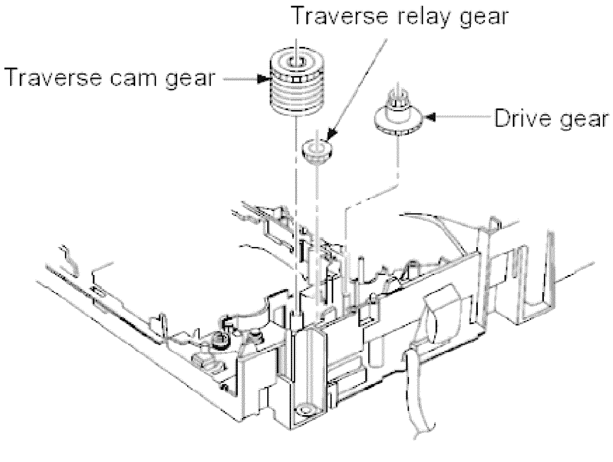

Spindle base unit
(2)

Step 11 Lift up the left side of spindle base unit first in direction of arrow (1) and remove in direction of arrow (2).


Spindle base unit


Slide plate (R)
Slide plate (L)

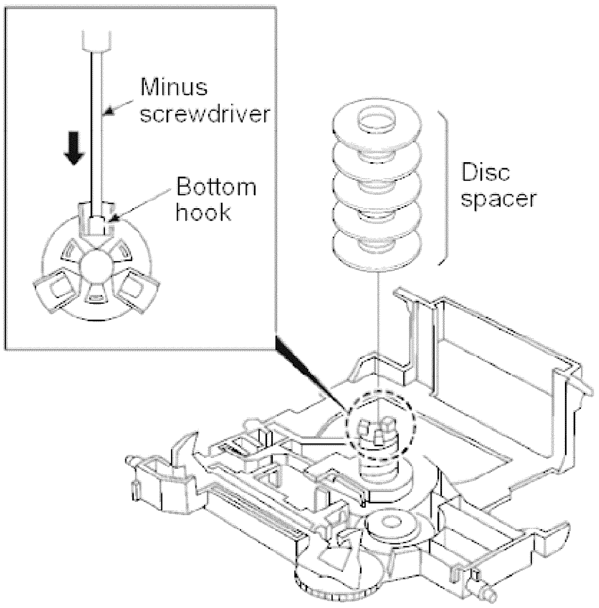
Step 12 Remove slide plate (R) and slide plate (L).


Traverse relay gear
Traverse cam gear
Drive gear

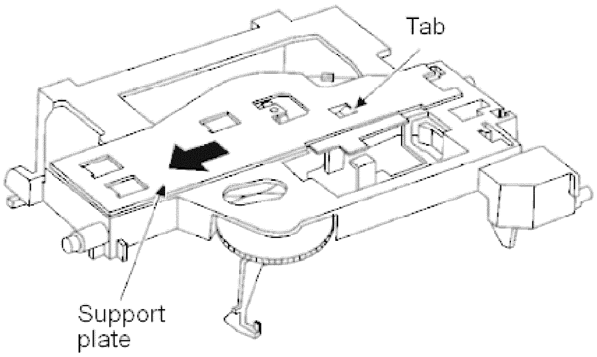
Step 13 Remove traverse relay gear, traverse cam gear and drive gear.

7.9.2. Disassembly and assembly of Spindle Base Unit

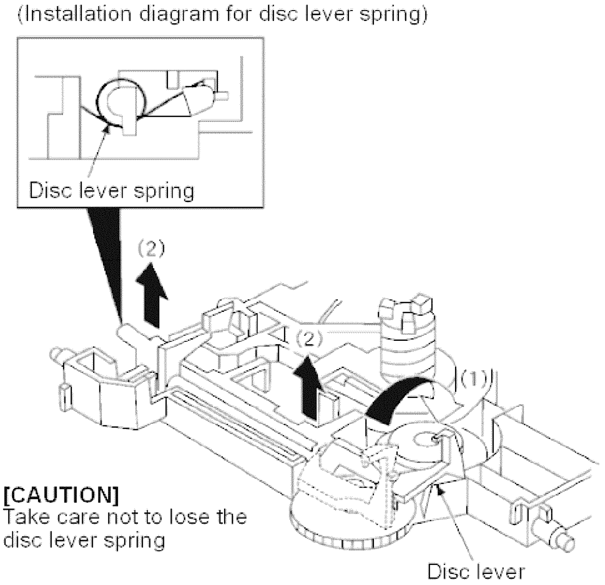
Step 1 Pull out 5 numbers of disc spacers after pressing down the bottom hook with a fine-tip minus screwdriver.


Minus
screwdriver
Bottom
hook
Disc
spacer

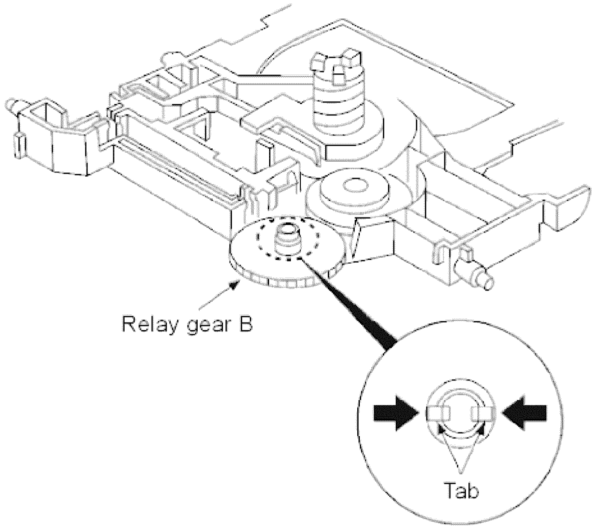
Step 2 While pressing the tab, slide the support plate in direction of arrow and remove the support plate.


Tab
Support
plate

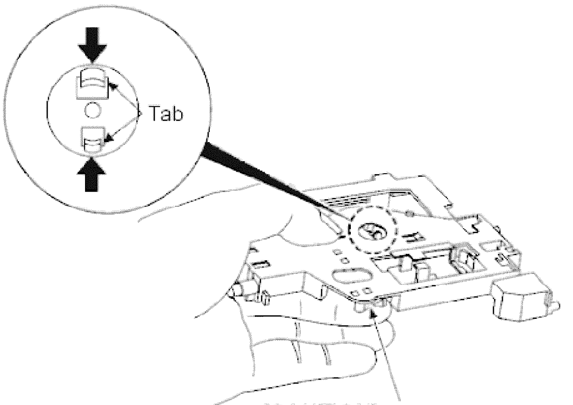
Step 3 Pull out the disc lever with the disc lever turned in the direction of arrow (1).


(Installation diagram for disc lever spring)
Disc lever spring
(2)
(2)
(1)
[CAUTION]
Take care not to lose the
disc lever spring
Disc lever

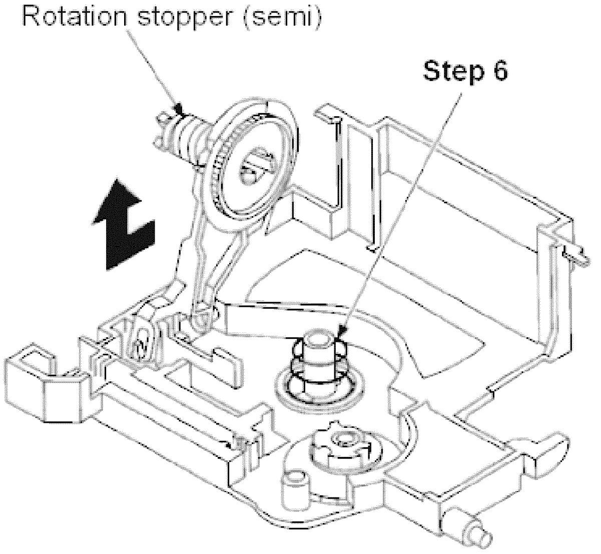
Step 4 Remove tab at 2 locations and pull out relay gear (B).


Relay gear B
Tab

Step 5 Remove tab at 2 locations.

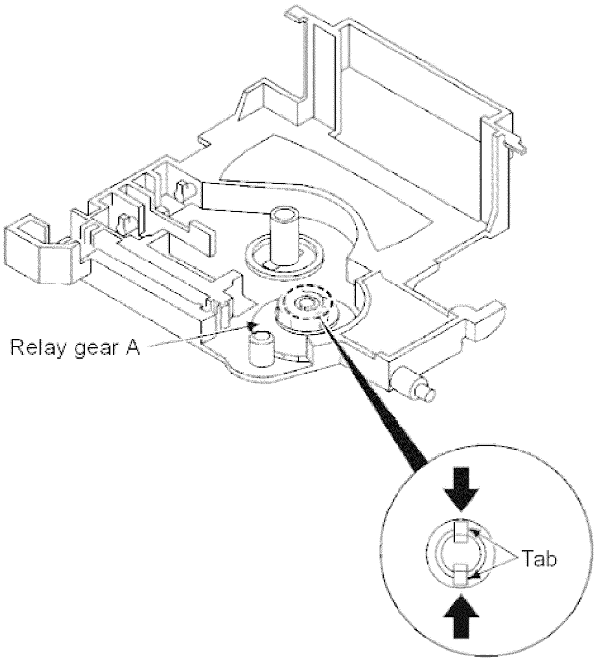


[CAUTION]
The rotaion stopper (semi) is kept tense by a sping.
Use hands to press on it.

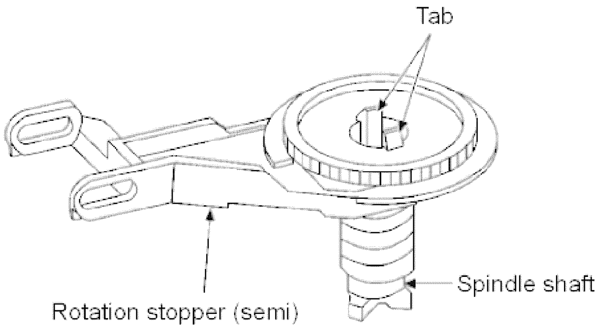

Rotation stopper (semi)
Step 6

Step 6 Remove cushion spring.

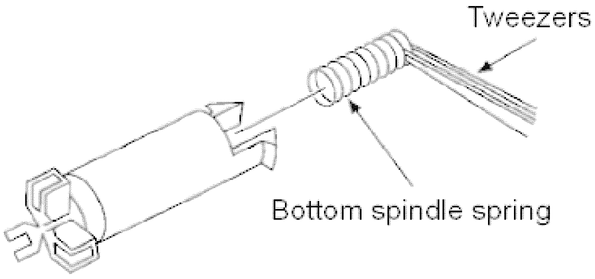
Step 7 Remove rotation stopper (semi) in direction of arrow.


Relay gear A
Tab

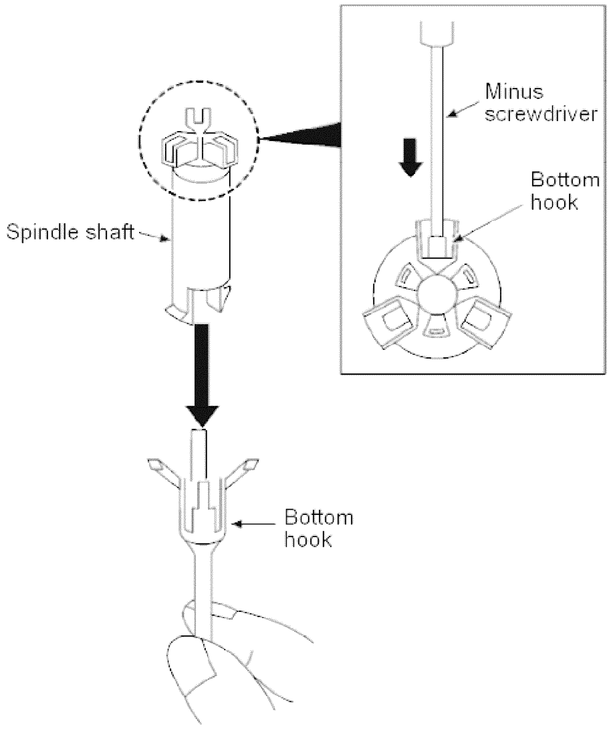
Step 8 Remove tab at 2 locations and pull out relay gear (A).


Tab
Spindle shaft
Rotation stopper (semi)

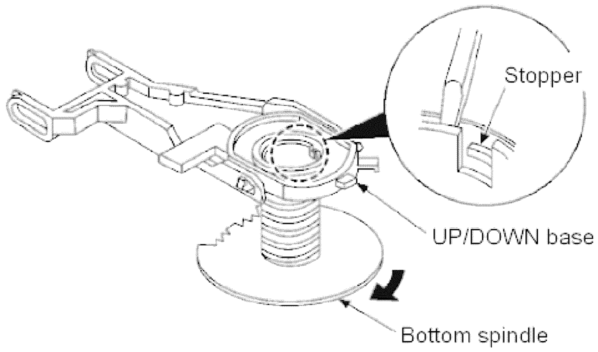
Step 9 Remove tab at 2 locations and detach the spindle shaft.


Tweezers
Bottom spindle spring

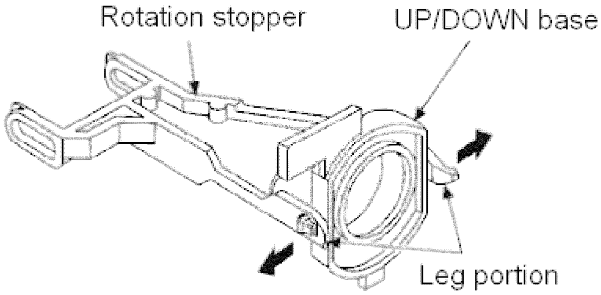
Step 10 Remove bottom spindle spring with a pair of tweezer.


Minus screwdriver
Bottom hook
Spindle shaft
Bottom hook

Step 11 Press down the bottom hook with a fine-tip minus screwdriver.
Step 12 Hold the axis part of the bottom hook and pull it out.


Stopper
UP/DOWN base
Bottom spindle

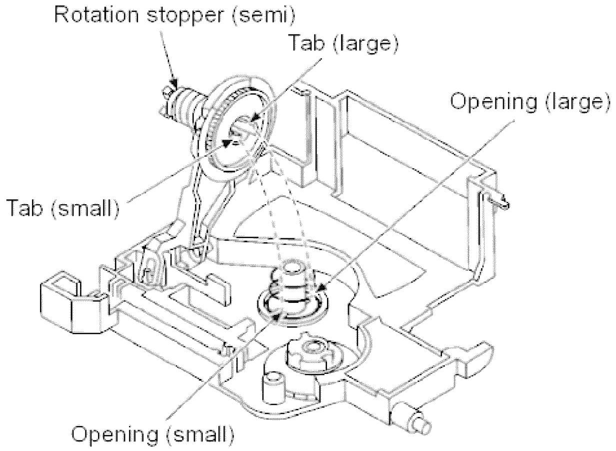
Step 13 Turn the bottom spindle in the direction of arrow until it hits against the stopper.
Step 14 Insert a fine-tip minus screwdriver between the bottom spindle and UP/DOWN base and slightly raise the bottom spindle for it to go over the stopper. Then turn the bottom spindle and remove it.


Rotation stopper
UP/DOWN base
Leg portion

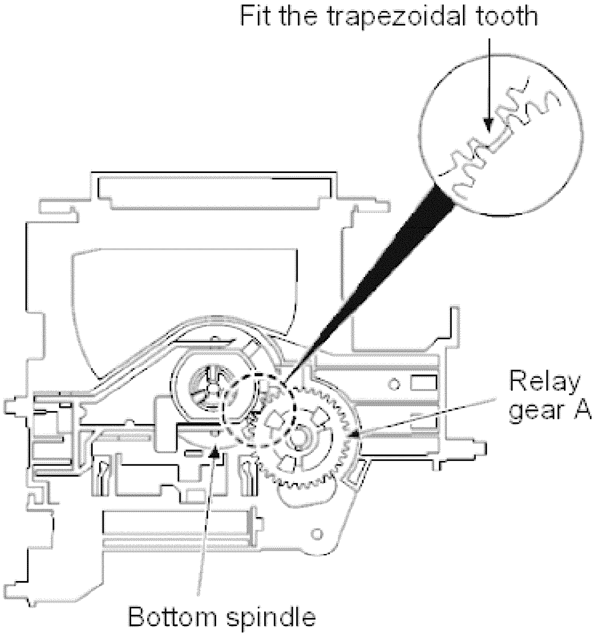
Step 15 Rotate the UP/DOWN base 90°. The spread the leg portion of the rotation stopper and remove the UP/DOWN base.

7.9.3. Installation of Rotation Stopper (Semi)

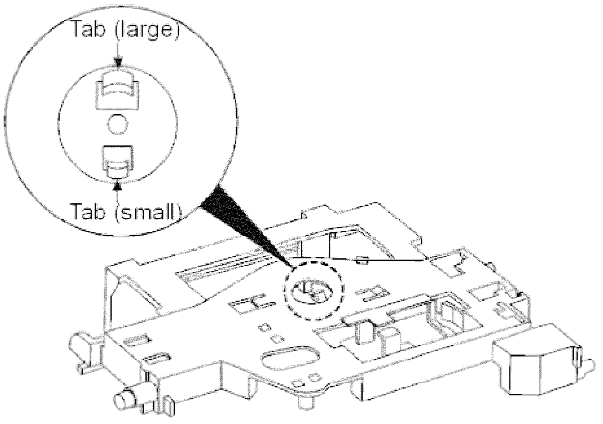
Step 1 Fit the tab on rotation stopper (semi) into the opening on spindle base. (Be careful as the size of tab differs).


Rotation stopper (semi)
Tab (large)
Opening (large)
Tab (small)
Opening (small)

Step 2 Lower down the rotation stopper (semi) and fit the trapezoidal tooth between bottom spindle and relay gear A.


Fit the trapezoidal tooth
Relay gear A
Bottom spindle

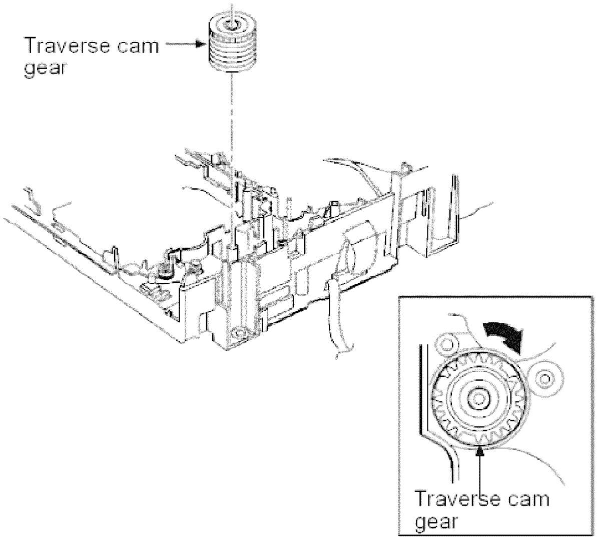
Step 3 Insert the rotation stopper (semi) and ensure that the tabs are engaged.


Tab (large)
Tab (small)

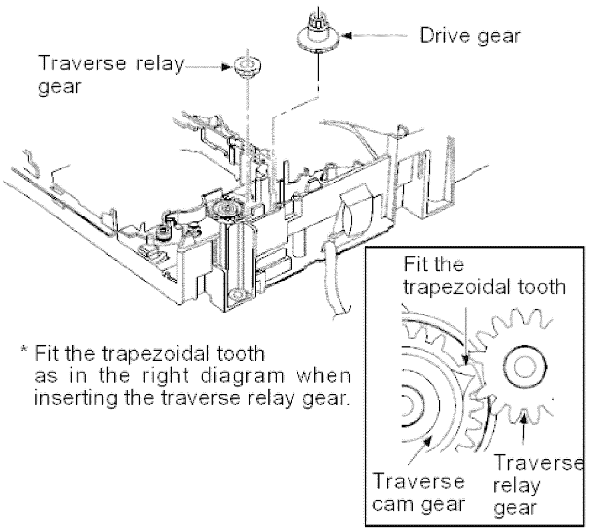
7.9.4. Assembly of Mechanised Drive Part

Step 1 Install the traverse cam gear.

Step 2 Rotate the traverse cam gear fully in the clockwise direction.


Traverse cam gear
Traverse cam gear

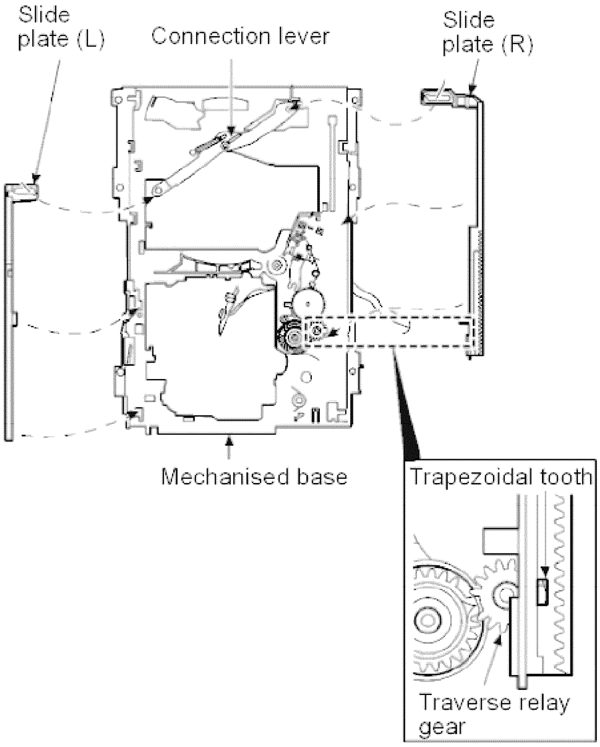
Step 3 Install the drive gear and traverse relay gear.


Drive gear
Traverse relay gear
Fit the trapezoidal tooth
Traverse cam gear
Traverse relay gear

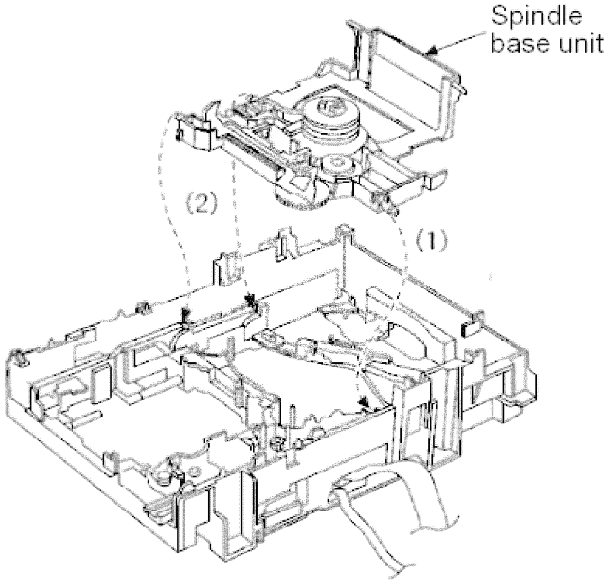
* Fit the trapezoidal tooth as in the right diagram when inserting the traverse relay gear.

Step 4 Unstall the slide plate (L) on the mechanised base and fit it to the connection lever.

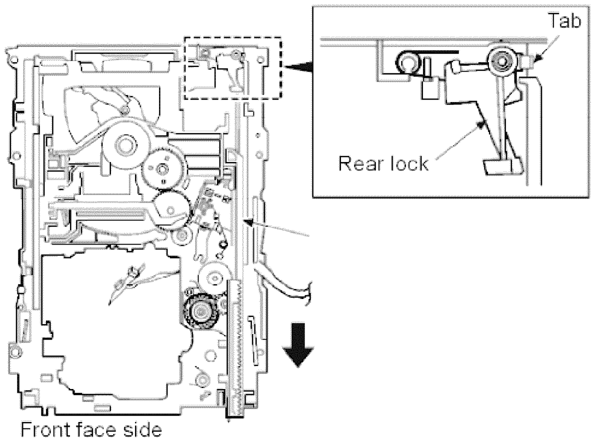
Step 5 Install the slide plate (R) on the mechanised base. Fit it to the connection lever first before fitting the location with the trapezoidal tooth of the traverse relay gear.


Slide plate (L)
Connection lever
Slide plate (R)
Mechanised base
Trapezoidal tooth
Traverse relay gear

Step 6 Install the spindle base unit.(Install it first from the slide plate (R) side.


Spindle base unit
(2)
(1)

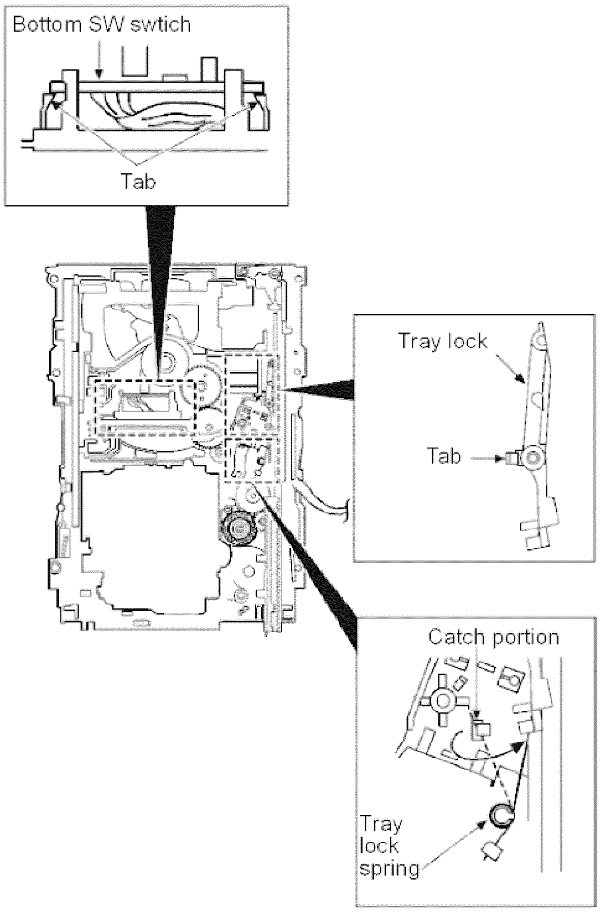
Step 7 Move the slide plate (R) fully to the front face side.



Tab
Rear lock
Front face side

Step 8 Install the rear lock. (Ensure that tabs are engaged)

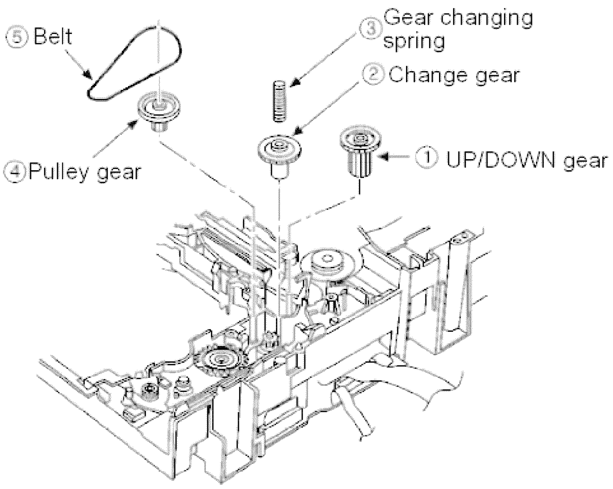
Step 9 Install the bottom SW board. (Ensure that the tabs are engaged).



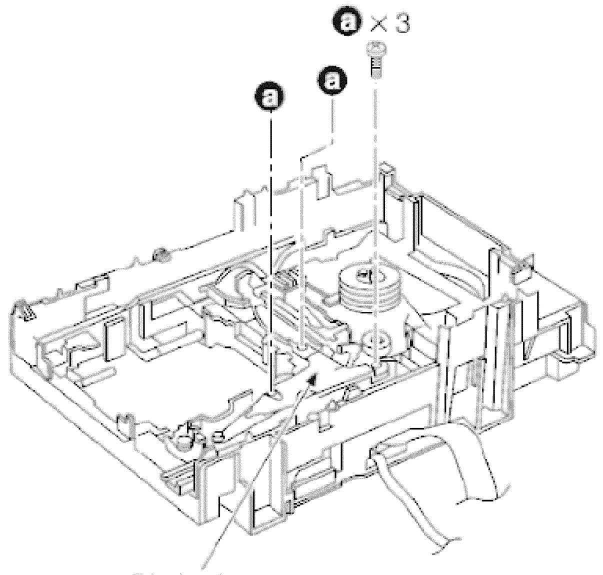
Bottom SW swtich
Tab
Tray lock
Tab
Catch portion
Tray
lock
spring

Step 11 Detach tray lock spring from catch portion and hook it to the tray lock.

Step 12 Install the UP/DOWN gear, change gear, gear changing spring, pulley gear and belt in the sequence of (1) ~ (5).


⑤ Belt
③ Gear changing spring
② Change gear
④ Pulley gear
① UP/DOWN gear

Step 13 Install the pitch plate and fix the screw (a).


a × 3
a
a
Pitch plate

Step 13 Install the disc tray, DVD traverse unit, mechanism cover, etc.

[Confirm operation after completion)

Rotate with the hexagon driver (gear) and confirm the operation of the following item.

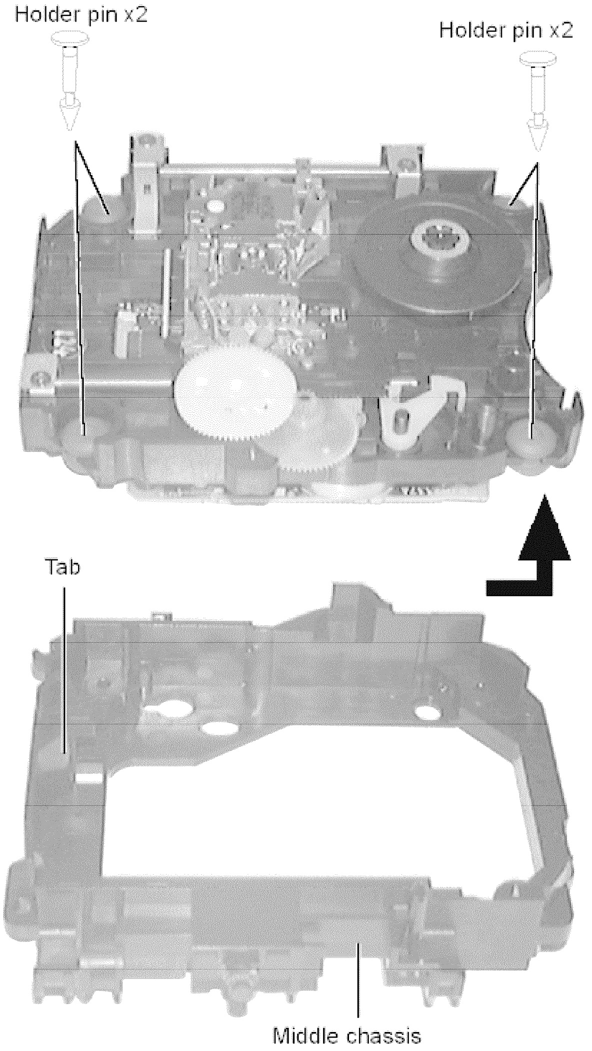
1. Opening the disc tray.
2. Movement of trat towards stock side.
3. Up-Down movement of spindle base unit.
4. Up-Down movement of traverse unit.

7.10. Disassembling the Middle Chassis

Step 1 Remove the holder pins.

Step 2 Remove the tab.

Step 3 It lifts while pulling it in the direction of the arrow.

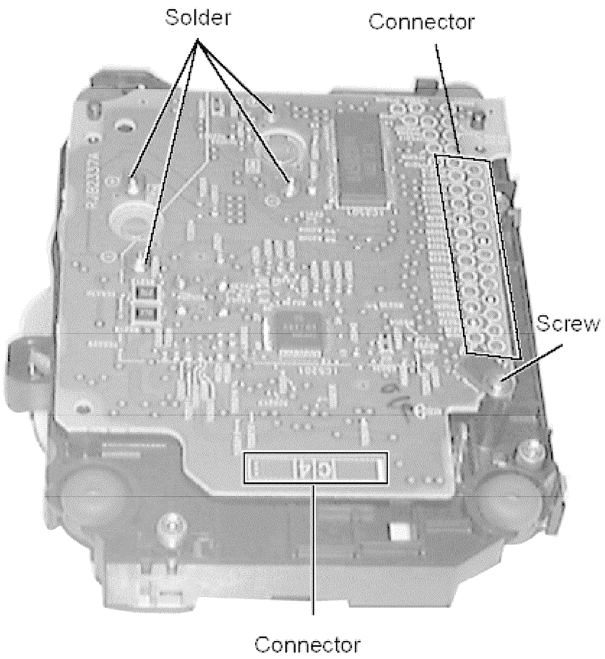

Holder pin x2
Holder pin x2
Tab
Middle chassis

7.11. Terminal P.C.B.

Step 1 Unscrew the screw.

Step 2 Remove the solders.

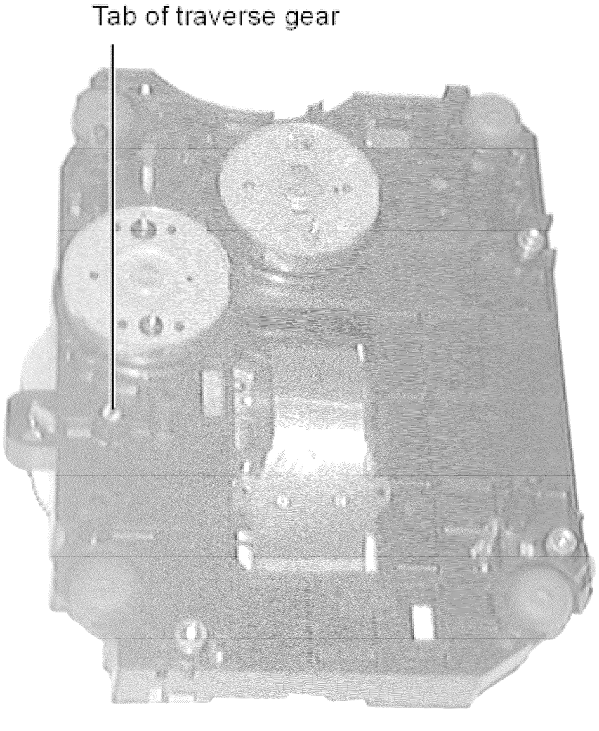
Step 3 Remove the connector.

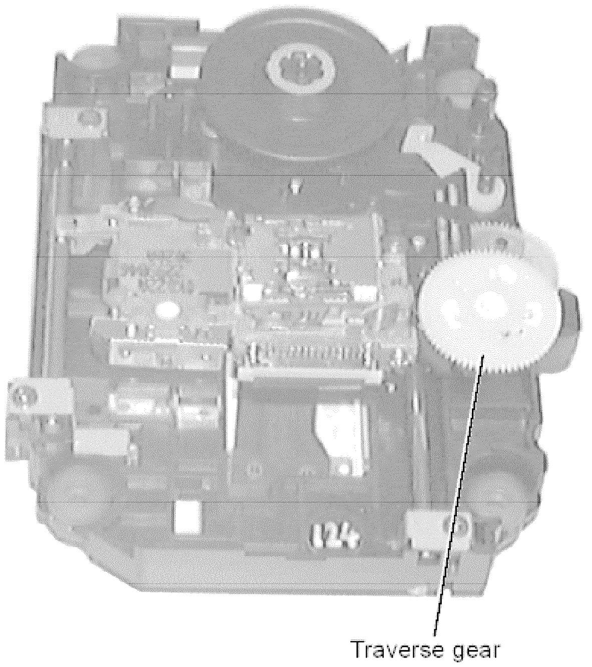

Solder
Connector
Screw
Connector

7.12. Traverse Gear

Step 1 Disengage the tabs from the traverse gear.

Step 2 Remove the traverse gear.


Tab of traverse gear

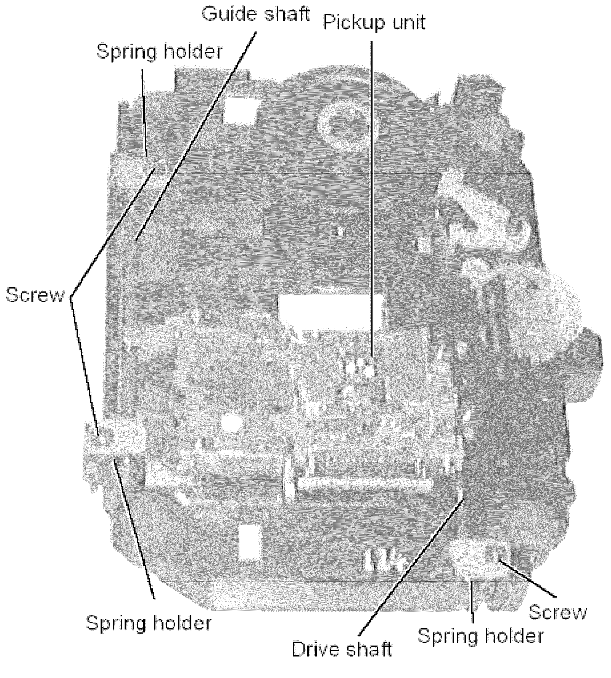

Traverse gear

7.13. Optical Pickup Unit

Step 1 Unscrew the screws.

Step 2 Remove the spring holders and the springs.

Step 3 Pull out the drive shaft and guide shaft.


Guide shaft
Pickup unit
Spring holder
Screw
Spring holder
Drive shaft
Spring holder
Screw

7.13.1. Precautions in optical pickup replacement

The optical pickup can be damaged by static electricity from your body. Be sure to take static electricity countermeasures when working around the optical pickup. (Refer to the related page in this Manual about the countermeasures.)

1. Do not touch laser diode, actuator and their peripheries.
2. Do not use tester to check laser diode. (Laser diode can be damaged easily.)
3. The use of soldering iron with anti-static feature is recommended when providing short-circuit to laser diode or when removing it.

4. Solder the land on flexible cable of optical pickup unit.

Caution

- When using the soldering iron without anti-static feature, short circuit the flexible cable terminal with a clip before short-circuiting the land.
- After intended repair is finished, remove the solder for short-circuit of laser diode in a correct way following the procedure described in this Manual.

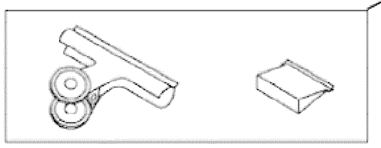


Fig. 1

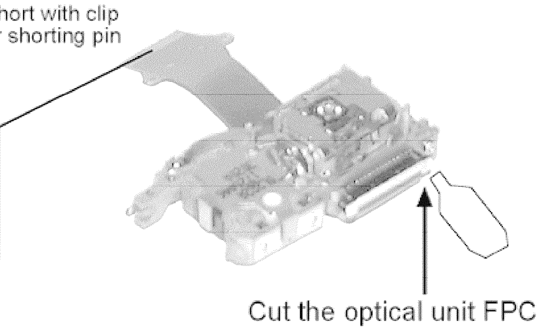
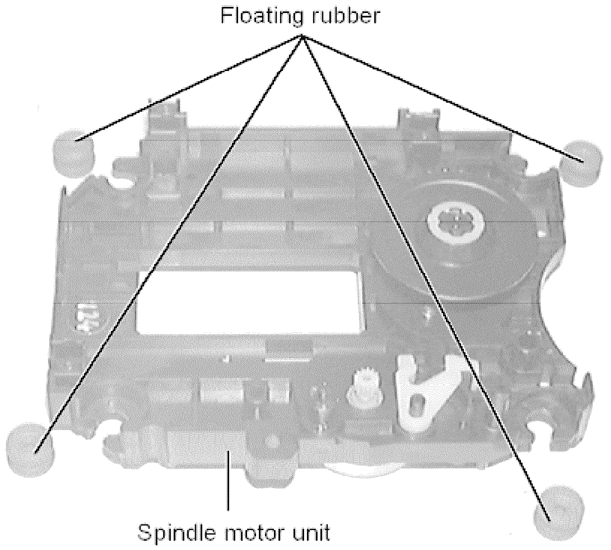


Fig. 2

7.14. Disassembling the Spindle Motor Unit

Step 1 Remove the floating rubbers.



8. Self-Diagnostic Function

Carry out the following procedure after repair works to ensure effee self diagnosis and tilt adjustment. When using the self diagnosis function, confirm that “NO DISC” is being displayed on the display panel and also the optical pickup has not been replaced yet. Carry out the self diagnosis in accordance to the guideline and replace the optical pickup when the current value of the laser drive is above 50.

[NOTE] Measure the value once the POWER button is depressed and power is connected before the equipment warm up (within 3 minutes).

- Carry out the following self diagnosis when “NO DISC” is being displayed on the display panel, the equipment does not read the disc or before the replacement of optical pickup.

1. When “NO DISC” is being displayed on the display panel, equipment does not function smoothly, etc.
2. Check the current value of the laser drive. With no disc in the drive, press the “Screen Display” button on the remote control while pressing the STOP button on the equipment.
3. Implement step 4 if the value is below 50. Replace the optical pickup when the value is above 50. After replacement, implement step 2 again and if the value of the optical pickup is above 40, replace the optical pickup again. There is a

possiblity of electrostatic failure during replacement.

4. Carry out tilt adjustment of the optical pickup if the value of the optical pickup before replacement is below 50 or the value of the replaced optical pickup is below 40.
5. Carry out initial setting. Press the "> 10" button on the remote control while pressing the STOP button on the equipment. With this, the whole procedure is completed.

9. Optical pickup tilt adjustment

9.1. Preparation for adjustment

1. Carry out STep 1 ~ Step 5 in Section 2 of Disassembly procedure and Major parts replacement procedure for operations check.
2. Remove the front panel and place it on a thick piece of paper on top of the main unit (Refer Fig. 1)
3. Prepare the service adjustment base and place the main unit on it. (Refer Fig. 1)

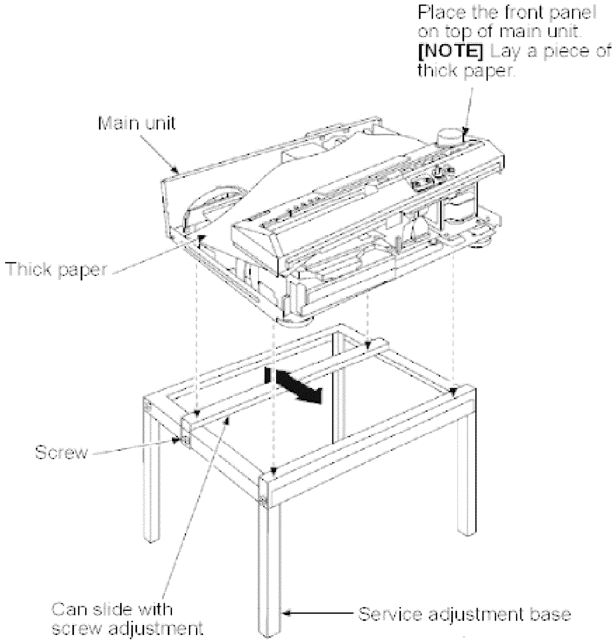

Place the front panel on top of main unit.
[NOTE] Lay a piece of thick paper.
Main unit
Thick paper
Screw
Can slide with screw adjustment
Service adjustment base

Fig. 1

4. Adjust with hexagon wrench from bottom of service adjustment base (Refer Fig. 2 & 3)

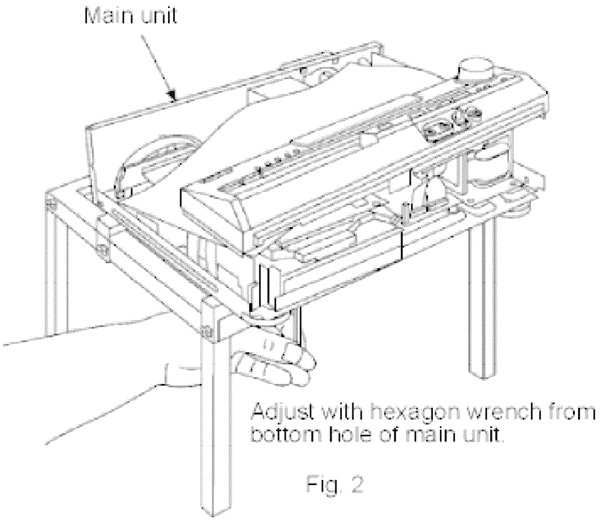

Main unit
Adjust with hexagon wrench from bottom hole of main unit.

Fig. 2

Location of positioning adjustment screw

Bottom face of main unit (Front panel is detached)

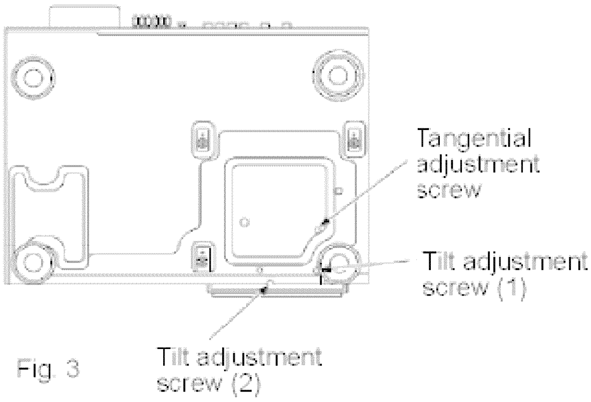
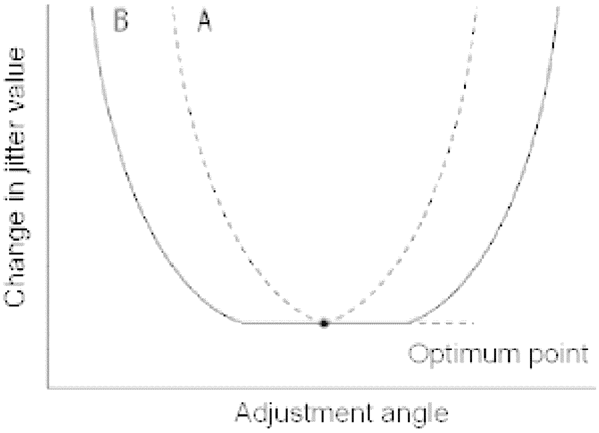

Tangential adjustment screw
Tilt adjustment screw (1)
Tilt adjustment screw (2)

Fig. 3

9.2. Optical pickup adjustment

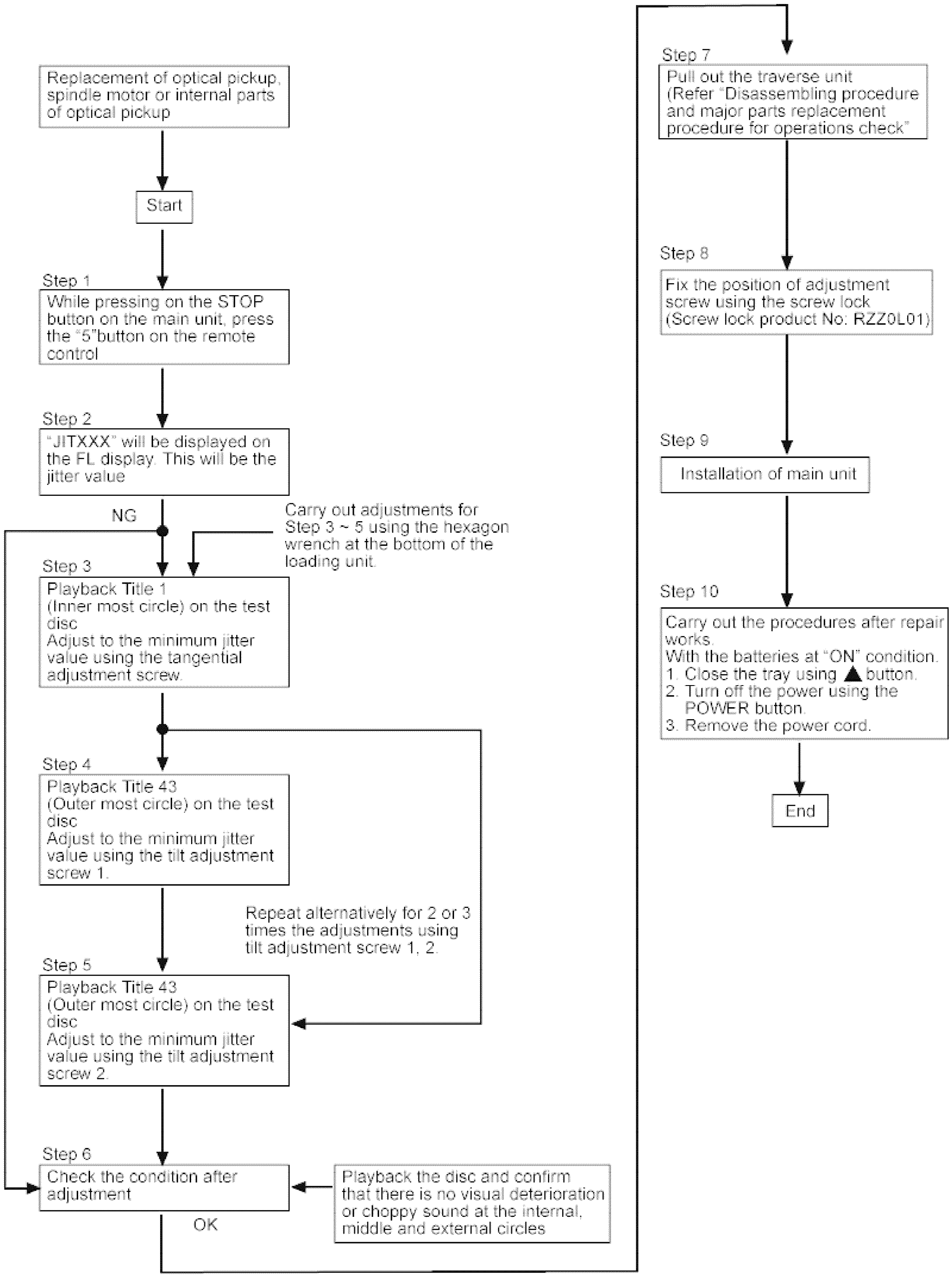
Measurement point	Adjustment point	Mode	Test Disc
Service indicator on main unit	Tangential adjustment screw. Tilt adjustment screw.	Track 1 (Inner most circle) playback. Track 43 (Outer most circle) playback	DVD-S15 or DVDT-S01

Required equipment	Adjustment value
Hexagon wrench (Product No: JGS0100) Screw lock (Product No: RZZ0L01)	Adjust to minimum jitter value



Based on the diagram on the left.

1. When the jitter value changes as in A, the optimum point can be easily determined.
2. When the jitter value changes as in B, the optimum point is selected near the middle region.


Replacement of optical pickup, spindle motor or internal parts of optical pickup
Start
Step 1
While pressing on the STOP button on the main unit, press the "5"button on the remote control
Step 2
"JITXXX" will be displayed on the FL display. This will be the jitter value
NG
Carry out adjustments for Step 3 ~ 5 using the hexagon wrench at the bottom of the loading unit.
Step 3
Playback Title 1 (Inner most circle) on the test disc Adjust to the minimum jitter value using the tangential adjustment screw.
Step 4
Playback Title 43 (Outer most circle) on the test disc Adjust to the minimum jitter value using the tilt adjustment screw 1.
Repeat alternatively for 2 or 3 times the adjustments using tilt adjustment screw 1, 2.
Step 5
Playback Title 43 (Outer most circle) on the test disc Adjust to the minimum jitter value using the tilt adjustment screw 2.
Step 6
Check the condition after adjustment
OK
Playback the disc and confirm that there is no visual deterioration or choppy sound at the internal, middle and external circles
Step 7
Pull out the traverse unit (Refer "Disassembling procedure and major parts replacement procedure for operations check"
Step 8
Fix the position of adjustment screw using the screw lock (Screw lock product No: RZZ0L01)
Step 9
Installation of main unit
Step 10
Carry out the procedures after repair works.
With the batteries at "ON" condition.
1. Close the tray using ▲ button.
2. Turn off the power using the POWER button.
3. Remove the power cord.
End

[NOTE]

- In most cases, replacement of other parts of the traverse unit do not require adjustment. However, carry out adjustments if there is deterior ation of video qualiity.
- Light adjustment is not carried out inside the optical pickup.
- In most cases, adjustment is not required after replacement of traverse unit.

10. Self-Diagnostic Function and Service Mode

10.1. Mode List

Use this function when performing maintenance on the unit.

Main unit button	Remote control button	Usage
TUNE MODE	0	UHF display
	5	Positioning adjustment
	6	Confirmation of area code, transmission method
	7	Confirmation of internal program version
	9	Total illumination of main unit display panel
	Screen Display	Confirmation of laser drive current
	Pause	Saving of laser drive current value after optical pickup replacement (Do not perform this operation other than for replacement of optical pickup)
	>10	Initialisation of main unit (Return to factory shipment settings) Carry out for replacement of micro computer, peripheral parts of micro computer or printed board.

10.2. DVD Self Diagnostic Function - Error Code

Error Code	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defec
	U, H error					
U11	Focus error					
H01	Tray loading error					
H02	Spindle servo error	(Spindle servo, DSC SP motor, CLV servo error)				
H03	Traverse servo error					
H04	Tracking servo error					
H05	Seek error					
H06	Power error	Cannot switch off the power because of the panel and system computer communication error				
	DSC related					
F500	DSC error	DSC stops in the occurence of servo error (starup, focus error, etc)	OPU	ADSC	FEP	servo drive
F501	DSC not Ready	DSC-system computer communication error (Communication failure caused by idling of DSC)	ADSC	CPU		
F502	DSC Time out error	Similar disposal as F500	OPU	ADSC	FEP	servo drive
F503	DSC communication Failure	Communication error (result error occured although communication command was sent)	ADSC	FEP	EEPROM	
F505	DSC Attention error	Similar disposal as F500	OPU	ADSC	FEP	servo drive
F506	Invalid media	Disc is flipped over, TOC unreadable, incompatible disc	DISC	FEP	ADSC	ODC
	ODC related					

Error Code	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defec
F600	Access failure to management information caused by demodulation error	Operation stopped because navigation data is not accessible caused by the demodulation defect	ODC	FEP	ADSC	
F601	Indeterminate sector ID requested	Operation stopped caused by the request to access abnormal ID data	ODC	FEP	ADSC	
F602	Access failure to LEAD-IN caused by demodulation error	LEAD IN data unreadable				
F603	Access failure to KEYDET caused by demodulation error	Access failure to CSS data of disc				
F610	ODC abnormality	No permission for command execution	ODC			
F611	6626 QCODE don't read Error	Access failure to seek address in CD series	ODC			
F612	No CRC OK for a specific time	Access failure to ID data in DVD series	ODC			
F630	No reply to KEY DET enquiry	(for internal use only)				
F631	CPPM KEY DET is not available till the FILE terminal	(CPPM file system is unreadable caused by scratches)	DISC	CPPM		
F632	CPPM KEY DET is not available	Been revoked or falsified	DISC	EEPROM	CPPM	
	Disc code					
F103	Illegal highlight Position	Big possibility of disc specification violation during highlight display	DISC			
	HIC Error					
F4FF	Force initialize failure (time out)		EEPROM	CPU	FEP	ADSC
	Micro computer error					
F700	MBX overflow	When replying message to disc manager				
F701	Message command does not end	Next message is sent before replying to disc manager				
F702	Message command changes	Message is changed before it is sent as a reply to disc manager				

Error Code	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defec
F880	Task number is not appropriate	message coming from a non-existing task				
F890	Sending message when message is being sent to AV task	Sending message to AV task				
F891	Message couldn't be sent to AV task	Begin sending message to AV task				
F893	FROM falsification		FROM	CPU		
F894	EEPROM abnormality		EEPROM	Serial communication on lone		
F8A0	Message command is not appropriate	Begin sending message to AV task				

10.3. Last Error Code saved during NO PLAY

Error code	Error Content	System computer	Setting task	System computer internal er code
F0BF	6) Cannot playback because physical layer is not recoginizable	PCND_NOPLAY PHYSICAL 0x50	DriveManager	0xDOBF
F0C0	8) DVD: Cannot playback because it is not DVD Video/Adio/VR	PCND_NOPLAY VIDEO 0x70	DiscManager	0xDOCO
F0C1	9) DVD: Prohibited by the restricted region code	PCND_NOPLAY RCD 0x80	DiscManager	0xDOC1
F0C2	A) DVD: PAL restricted playback	PCND_NOPLAY PAL 0x90	DiscManager	0xDOC2
F0C3	B) DVD: Parental lock setting prohibits the playback of the entire title	PCND_NOPLAY PTL 0xA0	DiscManager	0xDOC3
F0C4	C) VCD: Prohibited because it is in PHOTO CD format	PCND_NOPLAY PHOTO CD 0xB0	DiscManager	0xDOC4
F0C5	VCD/CD: Prohibited bacause it is CDROM without CD-DA	PCND_NOPLAY CDROM 0xC0	DiscManager	0xDOC5

10.4. Service Precautions

10.4.1. Recovery after the DVD player is repaired

When an FROM or an EEPROM in and on the module P.C.B. has replaced, carry out the recovery disc processing to optimize the drive.
Playback the disc above to process the recovery automatically.

Recovery disc (Product number: RFKZD5TR001 [SPC supply])
FROM (Product number: RFKFRV45C040 [SPC supply])

Note:

This unit requires no initialization process carried out after the traditional DVD players were repaired. When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item of “Initialization: in 6.2 is carried out. Write down the contents of the setting before recovery processing, and reset the player.

10.4.2. Firmware version-up of the DVD player

The firmware of the DVD player may be renewed to improve the quality including operationability and playerbility to the substandard discs, processing to optimize the drive.

The version-up disc has also a recovery function so that you don’t need use the recovery disc again.

Note:

If the AC power supply is shut out during version-up due to a power failure, the version-up is improperly carried out.

In such a case, replace the FROM and carry out the version-up again.

The product number of the version-up disc will be noticed when it is supplied.

10.5. Retail shop lock function

In order ro prevent damage to disc during display at retail shop, etc., this function disables “Retrieval of disc”. “LOCKED” is displayed when the operation is selected and the operation would not function.

There are 2 types of lock function on this equipment, i.e., Lock Mode A and Lock Mode B.

10.5.1. Setting Method

Lock Mode A

With the power turned to On, set the SELECTOR to “DVD/CD”. The lock function works by presing the “POWER” button on either the main unit or the remote control while continously pressing on the”Tune MODE” button on the main unit. (When the locked condition is working, “LOCKED” will appear on the display for 3 seconds before commencement of disc playback.)

Lock Mode B

With the power turned to ON, set the SELECTOR to DVD/CD. The lock function works by pressing the “POWER” button on either the main unit or the remote control while continously pressing on the “/MEMORY” button on the main unit. (When the locked condition is working, “LOCKED” will appear on the display for 3 seconds before commencement of disc playback.)

When in Lock Mode B, only the sound quality operating buttons will work while the rest of the buttons will not work.

10.5.2. Removal method

Both Lock Mode A and B can be disabled by repeatling the setting methods. Furthermore, the lock functions can also be disabled by unplugging the power cord from the equipment. (“UNLOCKED” will appear on the display for 3 seconds when the lock function is disabled.)

11. Electrical Adjustment

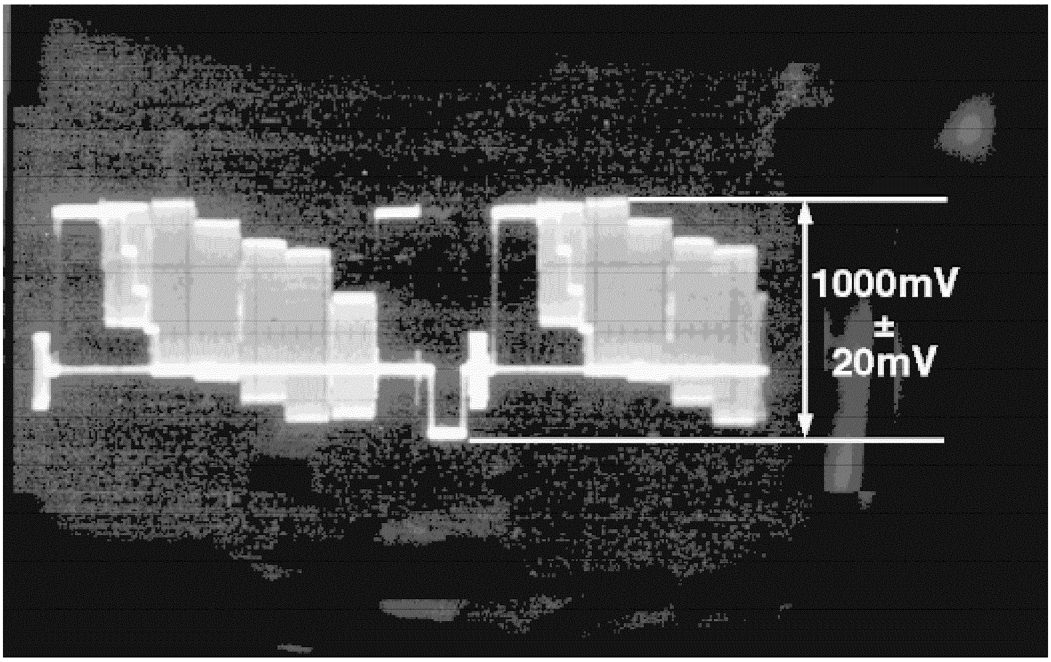
11.1. Video Output (Brightness Signal) adjustment

Carry out this adjustment after board replacement.

Measurement Point	Adjustment Mode	Test Disc
Video output jac	Colour bar 75%Playback (Title 46) : DVDT-S15Playback (Title 12): DVDT-S15	DVDT- S15orDVDT-S01
Required equirmentScrewdriver, oscilloscope	Adjustment	
	1000mVp-p±20mV	

Purpose: To ensure compatibility of video signal output.

1. Connect the oscilloscope to the video output jacks and set 75Ω.



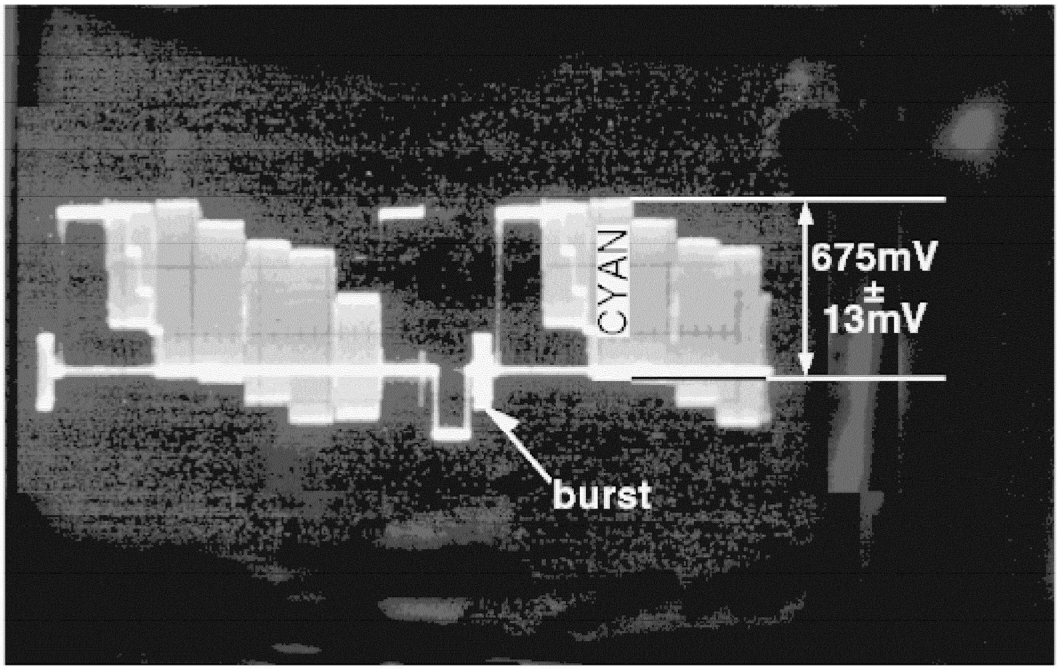
11.2. Video Output (Colour Signal) adjustment

Carry out this adjustment after board replacement.

Measurement Point	Adjustment Mode	Test Disc
Video output jac	Colour bar 75%Playback (Title 46) : DVDT-S15Playback (Title 12): DVDT-S15	DVDT- S15orDVDT-S01
Required equirmentScrewdriver, oscilloscope200mV/div, 10μsec/div	Adjustment	
	675mVp-p±13mV	

Purpose: To ensure compatibility of video signal output.

1. Connect the oscilloscope to the video output jacks and set 75Ω.



12. Illustration of IC’s, Transistors and Diodes

13. Terminal Function of IC’s

13.1. IC601 (C2BBGF000278) System Control

Pin No.	Mark	I/O	Function
1	D5_LED	I/O	Disc 5 LED Control. Active H.
2	D4_LED	I/O	Disc 4 LED Control. Active H.
3	D3_LED	I/O	Disc 3 LED Control. Active H.
4	D2_LED	I/O	Disc 2 LED Control. Active H.
5	D1_LED	I/O	Disc 1 LED Control. Active H.
6	N.C.	I/O	OPEN or GND with Resistor
7	KEY2	I/O	Key 2 input
8	KEY1	I/O	Key 1 input
9	JOG1B	I/O	JOG 1 INPUT B. Main Volume.
10	JOG1A	I/O	JOG 1 INPUT A. Main Volume.
11	MIC_VR	I/O	MIC VR AD input
12	DSPRST	I/O	DSP reset output.Reset control for DSP micro computer.
13	DSPACK	I/O	DSP ACK input. ACK input from DSP micro computer.

Pin No.	Mark	I/O	Function
14	SENSE	I/O	DSP sense input. SENSE input from DSP micro computer.
15	PHONE	I/O	SW input for PHONE SW detection. L: without PHONE/H:with PHONE
16	MIC SW	I/O	SW input for MIC detection. L: without MIC/H: with MIC
17	VSS	-	GROUND (VPP power input during FLASH)
18	/RESET	I	Reset input. Active L.
19	XCIN	L	OPEN or GND with Resistor
20	XCOUT	L	OPEN or GND with Resistor
21	VSS	-	GROUND (0V)
22	XIN	I	4.00MHz Main Clock.
23	XOUT	O	4.00MHz Main Clock.
24	VCC	-	Power Supply. (+5V)
25	MBP1	I/O	OPEN or GND with Resistor
26	MBP2	I/O	OPEN or GND with Resistor
27	PCONT	I/O	PCNT output. Power control output.
28	DCDET	I/O	DCDET input. DC power detection input.
29	RDS CLK	I/O	RDS clock input
30	RDS DATA	I/O	RDS data input
31	RMT	I/O	REMOCON input. Remote control input
32	SYNC	I/O	AC failure DET input. Synchronized input for detection of power failure
33	SER4	I/O	Serial 4 output
34	SER3	I/O	Serial 3 output
35	SER2	I/O	Serial 2 output
36	SER1	I/O	Serial1 output
37	SER 5	I/O	Serial 5 output (ECHO CS)
38	EDA	I/O	EEPROM data output
39	ECK	I/O	EEPROM clock output
40	ECS	I/O	EEPROM CS output
41	Dolby Digital LED	I/O	Dolby Digital LED control
42	WAKE LED	I/O	WAKE UP display LED control. Active H
43	SD	I/O	Tuner signal DET input

Pin No.	Mark	I/O	Function
44	DO/ST	I/O	Tuner DO/ST input
45	N.C.	I/O	L output during TUNER
46	N.C.	I/O	EEPROM data input
47-54	GRID8 -GRID1	I/O	Grid drive output(Digit drive output)
55-72	SEG34 -SEG17	I/O	Segment drive output (Anode drive output)
73-80	SEG16 -SEG9	O	Segment drive output (Anode drive output)
81-88	SEG8 -SEG1 (REG8-REG1)	O	Segment drive output (Anode drive output) Control output for regional area, function selection.
89	VEE	-	Power jack
90	MECHSI	I/O	Mecha control data input (Communication with DVD mechanical controls
91	MECHSO	I/O	Mecha control data output (Communication with DVD mechanical controls
92	MECHCK	I/O	Mecha control clock intput (Communication with DVD mechanical controls
93	MECHRQ	I/O	Mecha con request output (Communication with DVD mechanical controls
94	MECHCS	I/O	Mecha control CS input (Communication with DVD mechanical controls
95	MECRST	I/O	Mechon reset output (Communication with DVD mechanical controls
96	REG_IN	I/O	Region input (Input setting for regional area, Function)
97	AVSS	-	Power Jack (0V) AD Converter GROUND
98	VREF	-	Reference power jack (+5V)
99	N.C.	I/O	OPEN or GND with Resistor
100	CRT	I/O	CR timer control. Power failure time detection.

13.2. IC451 (C2BBFD000249) System Control

Pin No.	**Mark**	**I/O**	**Function**
1	VCC	I	Power connection terminal
2	VREF	I	Standard voltage input terminal
3	AVSS	-	Standard voltage input terminal (connected to GND)
4	MUTE	O	Mute control output terminal
5	PWCONT	O	DVD module power control output terminal
6	SYNC	I	Power disruption detection signal input terminal
7	C/SWOUT	-	Not used, Open
8	BREQ	I	Serial transmission request signal input terminal
9	BCS	O	Serial transmission chip select signal output terminal
10	BCLK	O	Serial transmission clock signal output terminal
11	DATAO	O	Serial transmission data signal output terminal
12	DATAI	I	Serial transmission data signal output termianl
13	CLS	O	Tray close signal output terminal
14	OPN	O	Tray open signal output terminal
15	CNVSS	-	Power input terminal (connected toGND through resistor)
16	TEST	I	Test mode signal input terminal
17	ECS	-	Serial signal output terminal to EEPROM (not used, open)
18	/RESET	I	Reset signal input terminal
19	XIN	I	Crystal oscillator circuit input terminal (=8MHz)
20	XOUT	O	Crystal oscillator circuit output terminal (=8MHz)
21	VSS	-	Power input terminal (connected to GND)
22	LED STB	-	Serial signal output terminal to LED driver (not used, open)
23	LED/ECLK	-	Serial signal output terminal to EEPROM driver (not used, open)

Pin No.	**Mark**	**I/O**	**Function**
24	LED/EDTA	I/O	Serial signal input/output terminal to LED driver (connected to GND through resistor)
25	LED CLR	_	Latch clear signal output terminal to LED driver (not used, open)
26	PLG	O	Plunger control signal output terminal
27	SW5	I	Bottom switch detection signal input terminal
28	PSTN	I	Position sensor detection signal input terminal
29	SW2	I	Tray position 2 detection switch input terminal
30	SW1	I	Tray position 1 detection switch input terminal
31	SW3	I	Tray open detection switch input terminal
32	CCW	O	Motor drive control signal output terminal (normal rotation)
33	CW	O	Motor drive control signal output terminal (reverse rotation)
34	HALH	O	Motor drive control signal output terminal (speed)
35	DVD CLK	I	Serial transmission clock signal input terminal to DVD module
36	DVD CMD	I	Serial transmission command signal input terminal to DVD module
37	DVD STAT	I	Serial transmission status signal input terminal to DVD module
38	SEL 5/1	I	Connected to GND through resistor
39	SW4	I	Clamp switch detection signal input terminal
40	KEY2	-	Operation key 2 signal input terminal (connected to GND)
41	KEY1	-	SOperation key 1 signal input terminal (connected to GND)
42	CSEL	I	Chip select signal input terminal (connected to GND through resistor)

14. Block Diagram

15. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S621
: Power On/Off switch

S622
: CD 1 switch

S623
: CD 2 switch

S624
: CD 3 switch

S625
: CD 4 switch

S626
: CD 5 switch

S630
: Open switch

S631
: Stop select switch

S632
: Pause select switch

S633
: Play select switch

S634
: Rev Skip switch

S635
: FWD Skip switch

S636
: Selector switch

S637
: Subwoofer Level switch

SW1
: Push switch

SW2
: Push switch

SW3
: Leaf switch

SW4
: CD switch

SW5
: Lock switch

SW 2501
: Leaf switch

VR601

: VR Volume Jog

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark	: Playback	<< >>	: Rec	< >	: FM		
(( ))	: CD	( )	: AM	[ ]	: AUX		

- **Importance safety notice :**

  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer´s specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

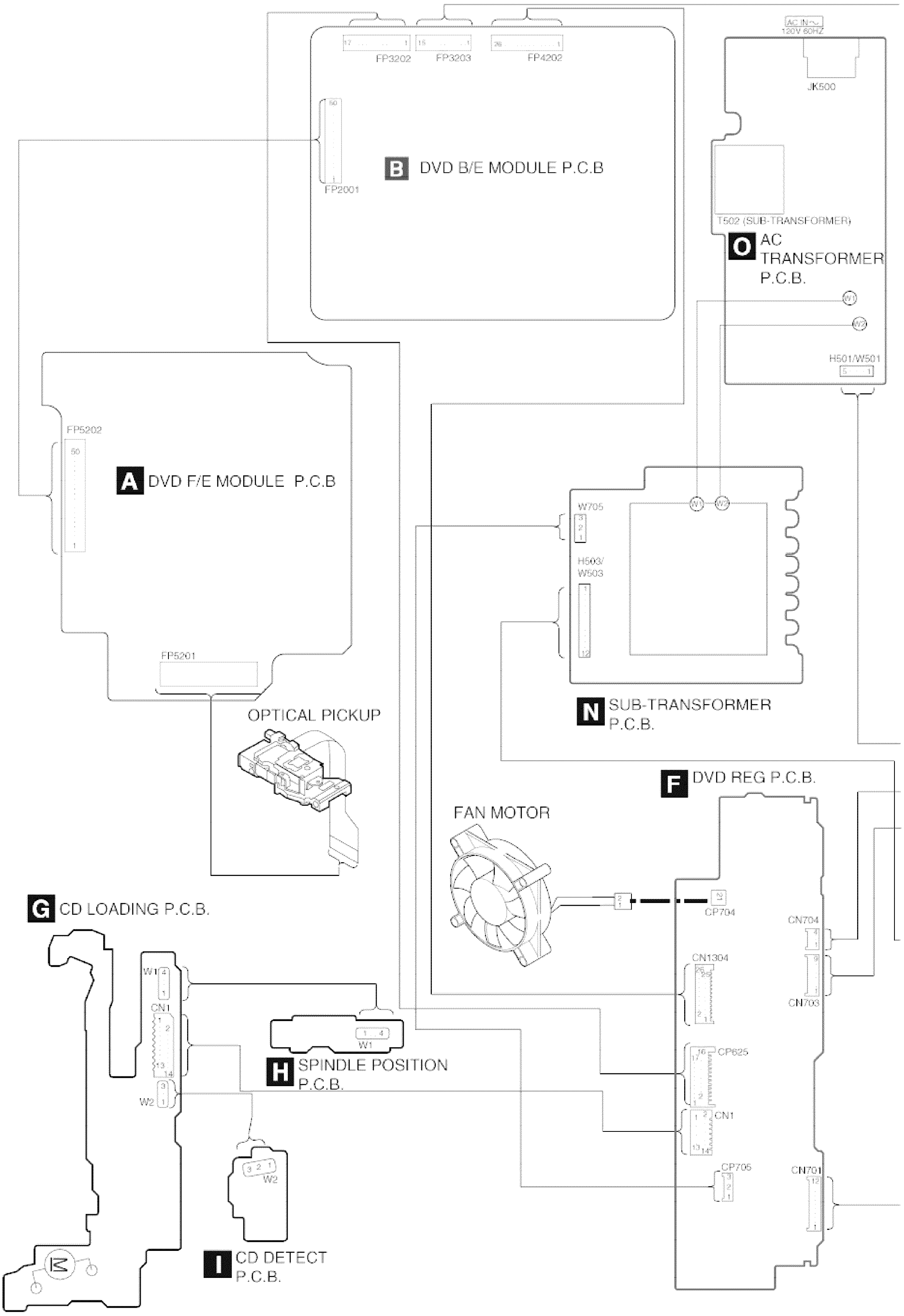
- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

“CAUTION: REPLACE FUSIBLE RESISTOR WITH THE SAME TYPE RSFMB40KT-L FUSIBLE RESISTOR”“ATTENTION: REMPLACER LA RESISTANCE FUSIBLE PAR UNE RESISTENCE FUSIBLE DE MEME TYPE RSFMB40KT-L.

16. Printed Circuit Board

Note: Circuit board diagrams may be modified at any time with the development of new technology.

17. Wiring Connection Diagram


FP3202
FP3203
FP4202
FP2001
B DVD B/E MODULE P.C.B
AC IN~ 120V 60HZ
JK500
T502 (SUB-TRANSFORMER)
O AC TRANSFORMER P.C.B.
W1
W2
H501/W501
FP5202
A DVD F/E MODULE P.C.B
FP5201
OPTICAL PICKUP
W705
W1
W2
H503/W503
N SUB-TRANSFORMER P.C.B.
F DVD REG P.C.B.
FAN MOTOR
CP704
CN704
CN1304
CN703
CP625
CN1
CP705
CN701
G CD LOADING P.C.B.
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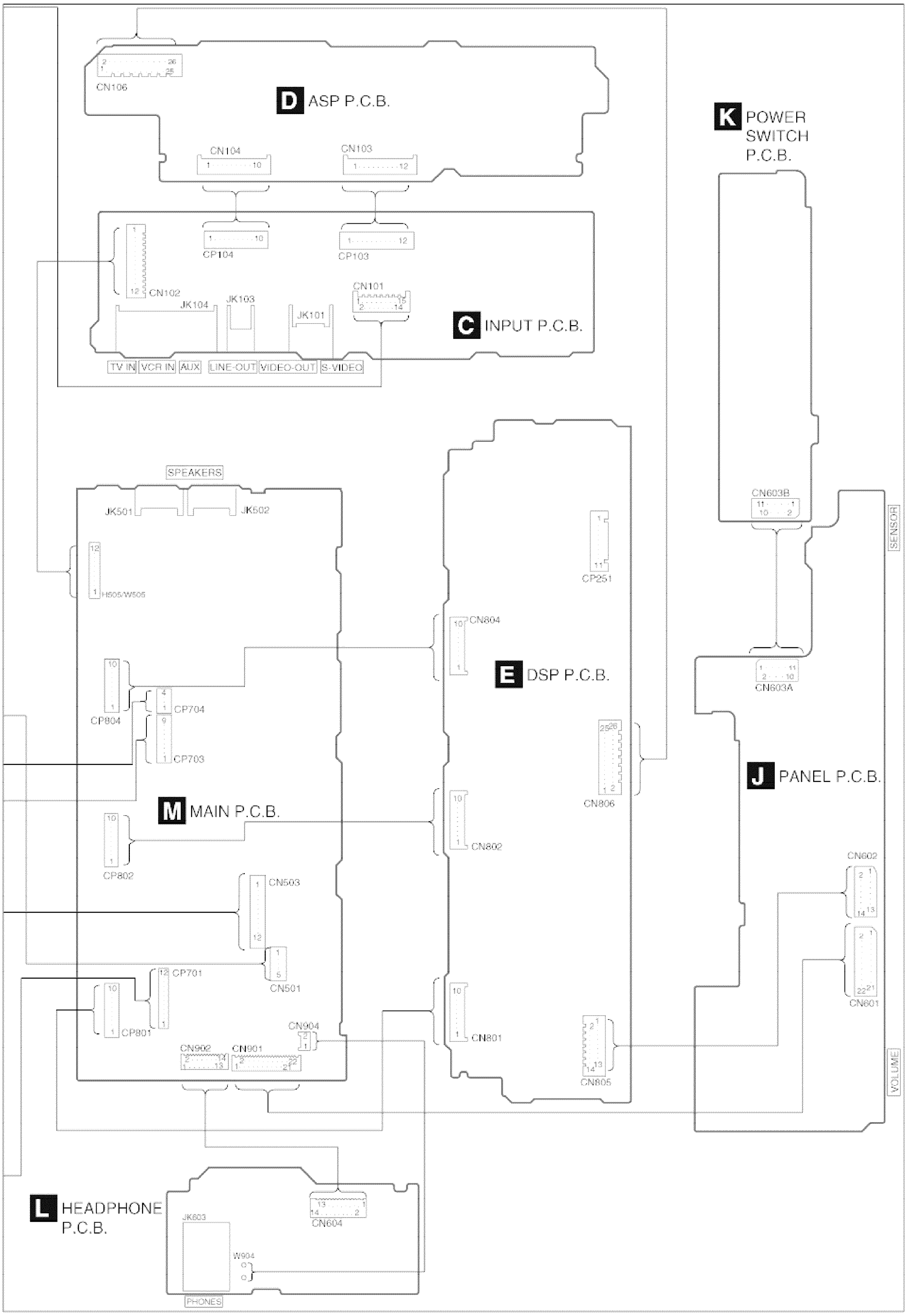
W2
W1
H SPINDLE POSITION P.C.B.
W2
I CD DETECT P.C.B.


D ASP P.C.B.
CN106
CN104
CN103
K POWER SWITCH P.C.B.
CP104
CP103
CN102
CN101
JK104
JK103
JK101
C INPUT P.C.B.
TV IN
VCR IN
AUX
LINE-OUT
VIDEO-OUT
S-VIDEO
SPEAKERS
JK501
JK502
H505/W505
CP251
CN804
E DSP P.C.B.
CN603B
CN603A
SENSOR
CP804
CP704
CP703
M MAIN P.C.B.
CN806
J PANEL P.C.B.
CP802
CN802
CN503
CN602
CN501
CP701
CN601
CP801
CN904
CN902
CN901
CN801
CN805
VOLUME
L HEADPHONE P.C.B.
JK603
CN604
W904
PHONES

18. Parts Location and Replacement Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

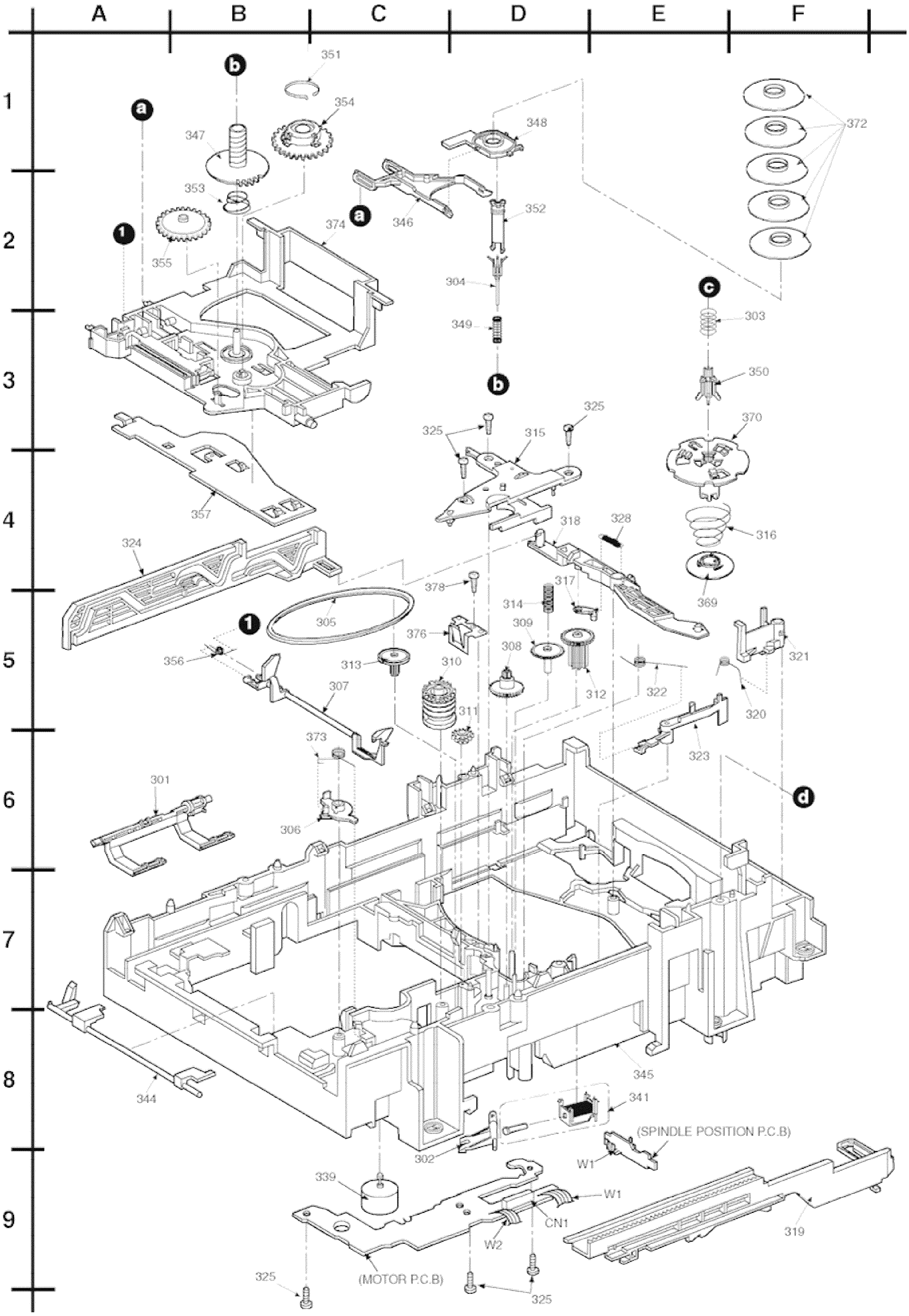
  When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)
  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on “Precaution of Laser Diode”.
- Capacitor values are in microfarads (μF) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**
- The “(SF)” mark denotes the standard part.
- Remote Control Unit: Supply period for three years from terminal of production.
- Reference for O/I book languages are as follows:

Ar :	Arabic	Du :	Dutch	It :	Italian	Sp :	Spanish
Cf :	Canadian French	En :	English	Ko :	Korean	Sw :	Swedish
Cz :	Czech	Fr :	French	Po :	Polish	Co :	Traditional Chinese
Da :	Danish	Ge :	German	Ru :	Russian	Cn :	Simplified Chinese

18.1. Loading Mechanism (RD-DAC036-S)

18.1.1. Loading Mechanism Parts Location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(SPINDLE POSITION P.C.B)
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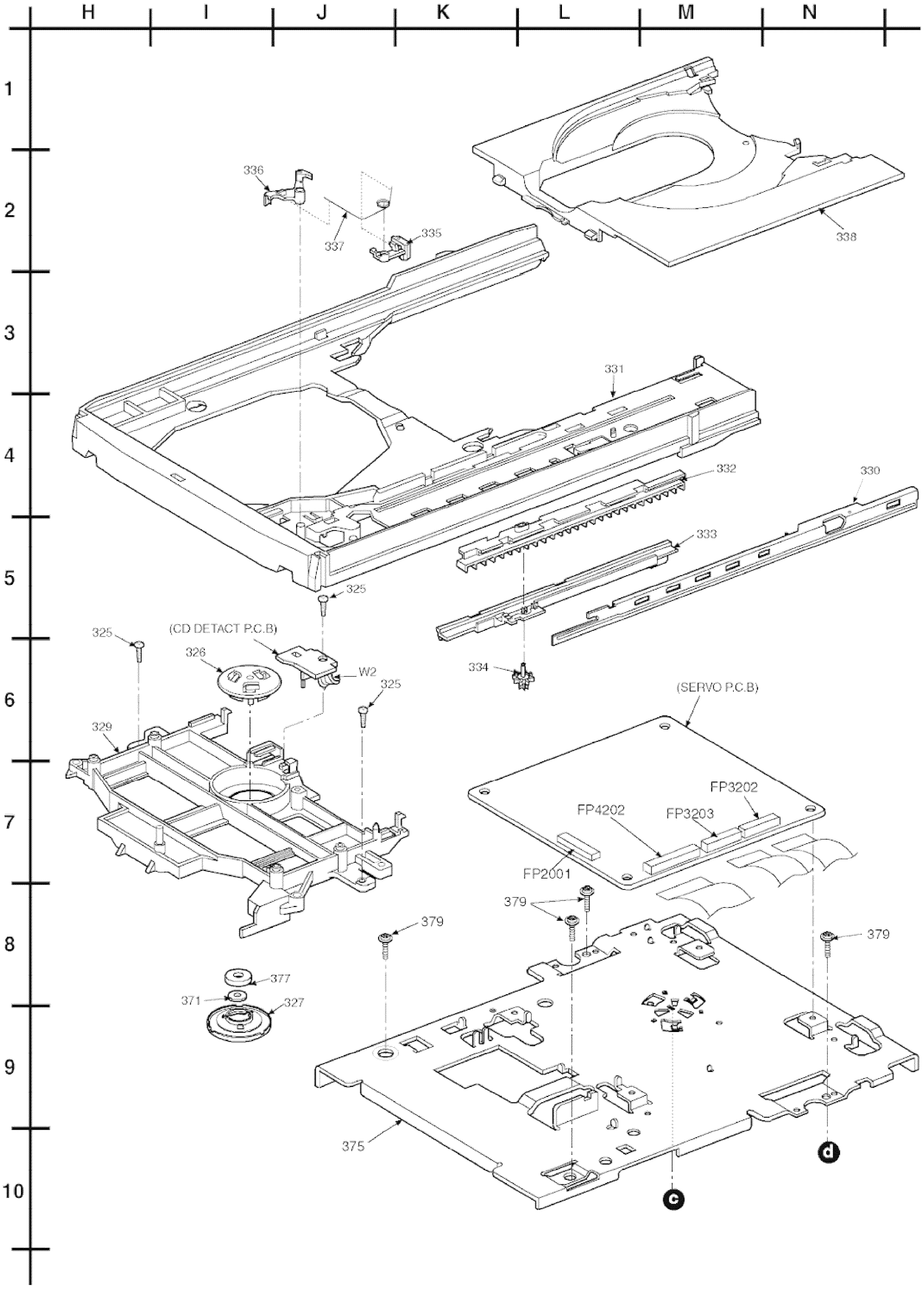
(MOTOR P.C.B)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(SERVO P.C.B)
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FP4202
FP3203
FP2001
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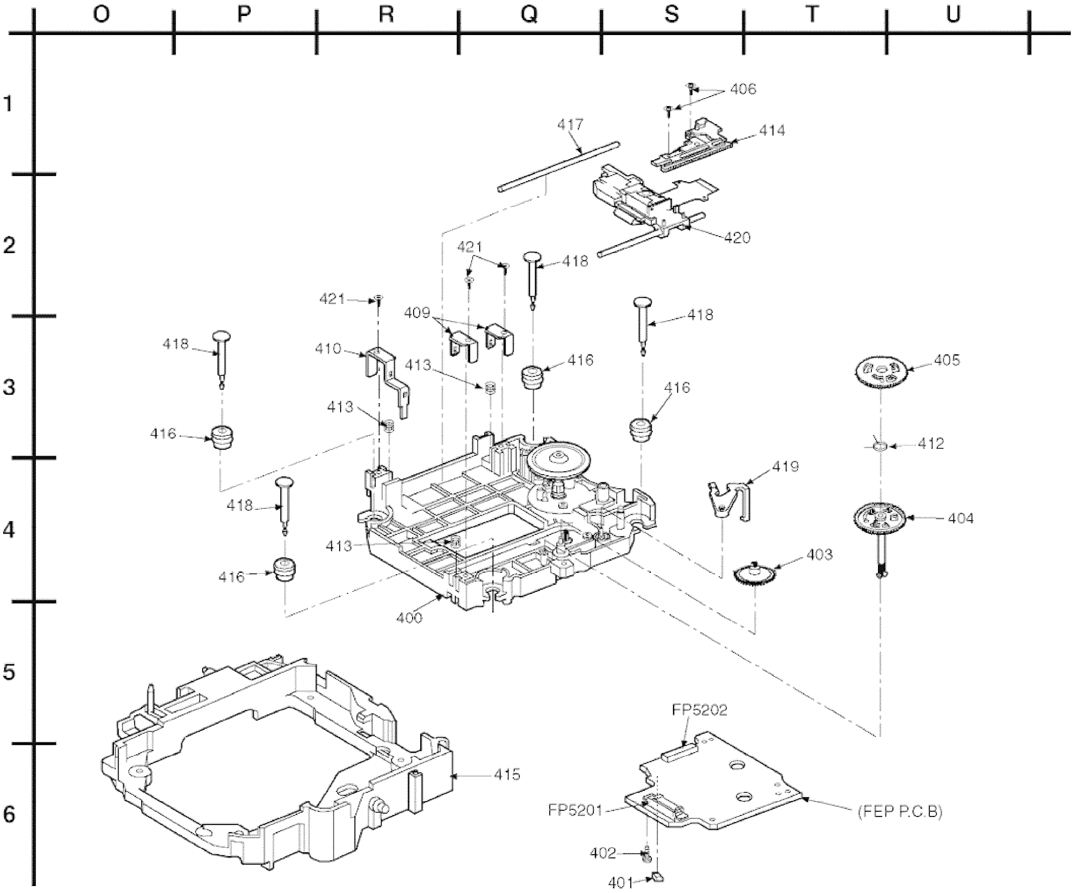
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FP5202
FP5201
(FEP P.C.B)
402
401

18.1.2. Loading Mechanism Parts List

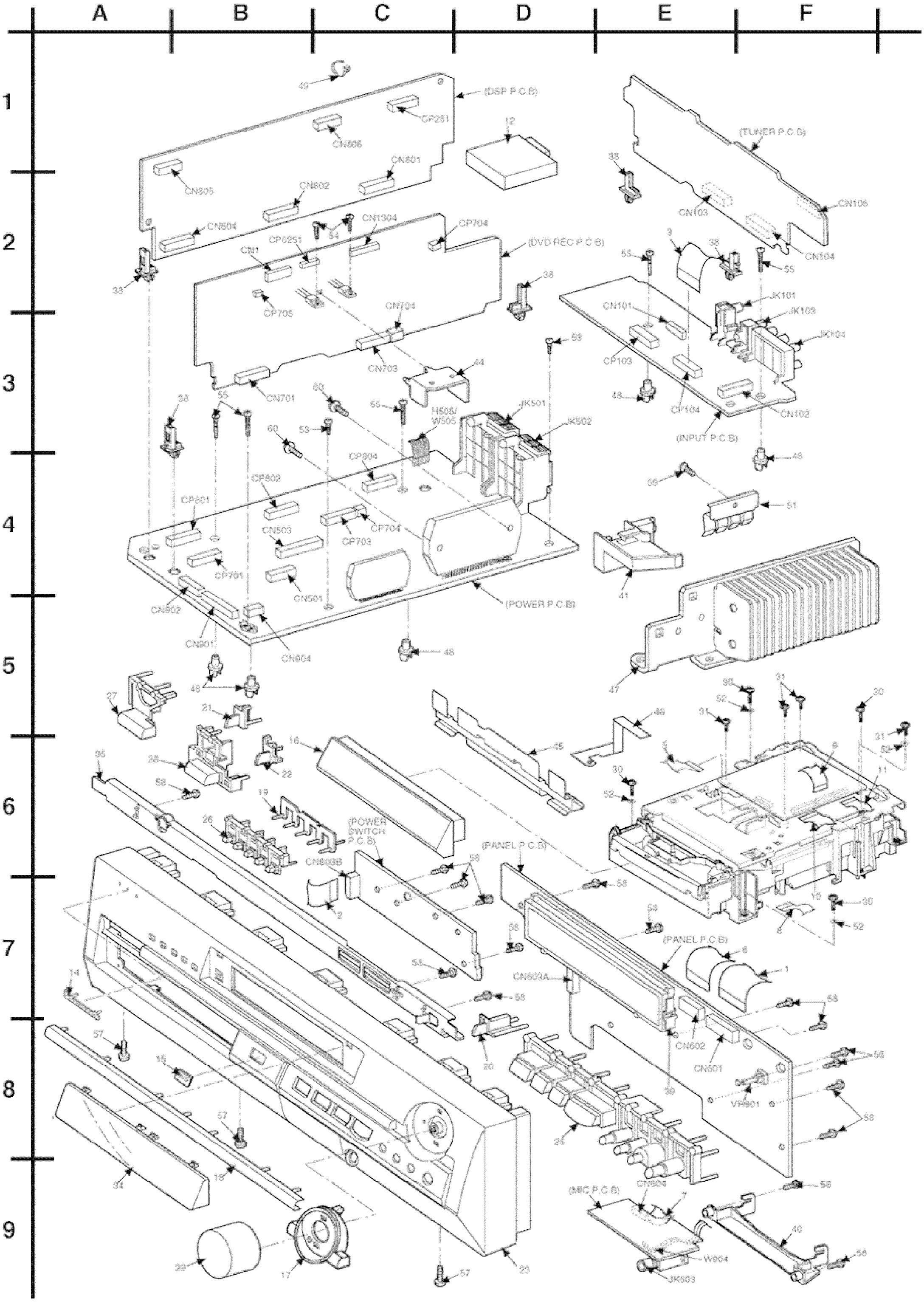
Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRV CAM GEAR	[M]
311	RDG0428	TRV RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGR GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK LEVER	[M]
322	RME0257	TRAY LOCK LEVER SPRING	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
325	XTB3+10J	SCREW	[M]
326	RMR1367-K	FIXED PLATE	[M]
327	RMR0624-W	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAY BASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR ASSY	[M]
341	RSJ0003	SOLENOLD ASSY	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS'Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SPRING	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR A	[M]
355	RDG0431	RELAY GEAR B	[M]
356	RME0262	DISK LEVER SPRING	[M]
357	RMA1105	SUPPORT PLATE	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]
375	RMA1435	PB ANGLE	[M]
376	RMC0387	SUPPORT SPRING	[M]
377	RMA1003	BACK YOKE	[M]
378	XTV2+6G	PCB SCREW	[M]
379	XTW3+10T	SCREW	[M]
400	RXQ0749	TRAVERSE BASE UNIT	[M]
401	RMG0558-K	PCB RUBBER	[M]
402	XTW2+8P	PCB SCREW	[M]
403	RDG0499	TRAVERSE GEAR A	[M]
404	RDG0500	TRAVERSE GEAR B	[M]
405	RDG0501	TRAVERSE GEAR C	[M]
406	RHD17028	RACK SCREW	[M]
409	RMC0415	ADJUST SPRING HOLDER	[M]
410	RMC0416	ADJUST SPRING HOLDER	[M]
412	RME0319	TRV GEAR SPRING	[M]
413	RME0320	ADJUSTMENT SPRING	[M]
414	RMM0234-1	TRAVERSE DRIVE RACK	[M]
415	RMR1366-K	UNIT CHASSIS	[M]
416	RMG0545-A	FLOATING RUBBER	[M]
417	RMS0711	GUIDE SHAFT	[M]
418	RMS0712-1	FIXED PIN	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
419	RMX0192	INNER STOPPER	[M]
420	RXQ0731	OPU UNIT	[M]
421	VHD1224	ADJ SPRING HOLDER SC	[M]

18.2. Cabinet

18.2.1. Cabinet Parts Location



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(DSP P.C.B)
CP251
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CN801
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CN802
CN804
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(TUNER P.C.B)
CN103
CN106
CN104
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CN1304
CP704
CP6251
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(DVD REC P.C.B)
CP705
CN704
CN703
CN701
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CN101
JK101
JK103
JK104
CP103
CP104
CN102
(INPUT P.C.B)
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H505/
W505
JK501
JK502
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CP804
CP802
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CN503
CP704
CP703
CP701
CN501
CN902
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CN904
(POWER P.C.B)
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(POWER
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CN603B
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CN603A
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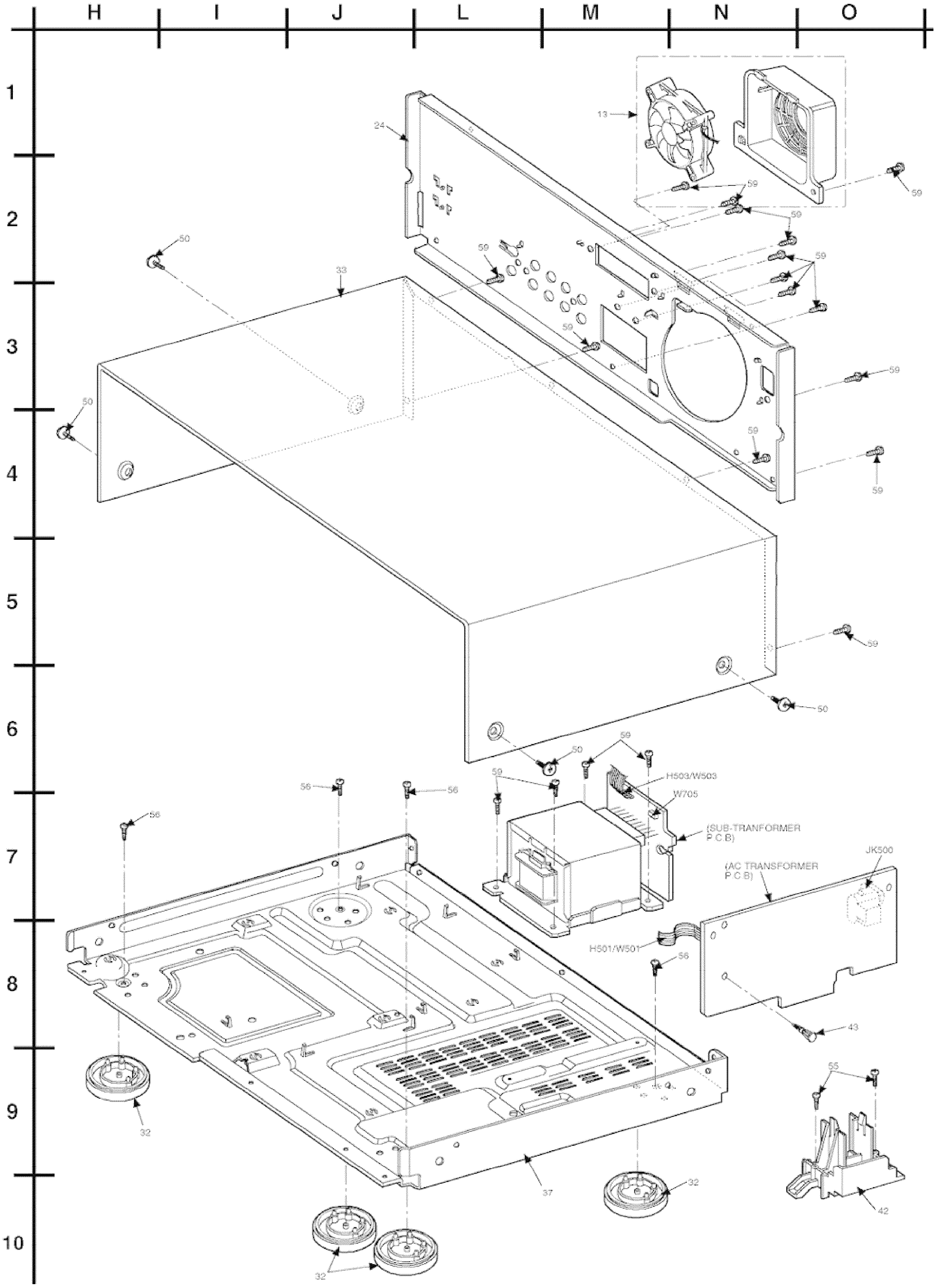
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H503/W503
W705
(SUB-TRANFORMER
P.C.B)
(AC TRANSFORMER
P.C.B)
JK500
H501/W501

18.2.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REE1019	22P FFC	[M]
2	REE1020	11P FFC	[M]
3	REE1025A	26P FFC WIRE	[M]
5	REE1078-J	50P FFC	[M]
6	REE1088	14P FFC	[M]
7	REE1089	14P FFC	[M]
8	REE1090	14P FFC	[M]
9	REE1091	15P FFC	[M]
10	REE1092	17P FFC	[M]
11	REE1093	26P FFC	[M]
12	RAN0004MM-2	TUNER PACK	[M]
13	REM0089	FAN UNIT	[M]
14	RGB0036-A1	BRAND BADGE	[M]
15	RGB0119A-N	DVD BADGE	[M]
16	RGK1283-S	CD LID	[M]
17	RGK1284-1S	VOLUME RING	[M]
18	RGK1287A-S	CENTER ORNAMENT	[M]
19	RGL0514-Q	PANELLIGHT (5 DISC)	[M]
20	RGL0515-Q	PANELLIGHT (B)	[M]
21	RGL0516-Q	PANEL LIGHT (A)	[M]
22	RGL0517-Q	PANEL LIGHT (C)	[M]
23	RGP0808G-S	FRONT PANEL	[M]
24	RGR0304C-K2A	REAR PANEL	[M]
25	RGU1897A-S	OPERATION BUTTON	[M]
26	RGU1898-S	5 DISC BUTTON	[M]
27	RGU1899-1S	POWER BUTTON	[M]
28	RGU1900-1S	I-LINK BUTTON	[M]
29	RGW0356-S	VOLUME KNOB UNIT	[M]
30	RHD30075	SCREW	[M]
31	RHD30078	SCREW	[M]
32	RKA0079-A	FOOT	[M]
33	RKM0425-S	TOP CABINET	[M]
34	RKW0618A-V	FL WINDOW	[M]
35	RMA1417	SUPPORT BAR	[M]
37	RMK0461B-1	BOTTOM CHASSIS	[M]
38	RMN0203	PCB HOLDER	[M]
39	RMN0603-2	FL HOLDER	[M]
40	RMN0604	MIC JACK HOLDER	[M]
41	RMN0606	WIRE SUPPORT	[M]
42	RMN0638	SUB TRAN SUPPORT	[M]
43	RMNX0019	PCB SPACER	[M]
44	RMY0241	SUB HEAT SINK	[M]
45	RSC0600	SHIELD PLATE	[M]
46	RSC0601	ALUMINUM SHEET	[M]
47	RXX0225	HEAT SINK UNIT	[M]
48	SHE187-6J	PCB SPACER	[M]
49	SHR301	LEAD CLAMPER	[M]
50	SNE2129-4	SCREW	[M]
51	RMC0412	REGULATOR CLUMPER	[M]
52	RMG0402-K	RUBBER WASHER	[M]
53	XTB3+10J	SCREW	[M]
54	XTB3+10JFZ	SCREW	[M]
55	XTB3+20J	SCREW	[M]
56	XTB3+6J	SCREW	[M]
57	XTB3+8JFZ	SCREW	[M]
58	XTBS26+10J	SCREW	[M]
59	XTBS3+8JFZ1	SCREW	[M]
60	XTW3+15T	SCREW	[M]

18.3. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3091A-N	DVD F/E MODULE (1/2) P.C.B.	[M](RTL)
	REP3091A-N	DVD F/E MODULE (2/2) P.C.B.	[M](RTL)
	REP3098K	DVD B/E MODULE (1/2) P.C.B.	[M](RTL)
	REP3098K	DVD B/E MODULE (2/2) P.C.B.	[M](RTL)
	REP3144A	INPUT P.C.B.	[M](RTL)
	REP3144A	TUNER P.C.B.	[M](RTL)
	REP3144A	DSP P.C.B.	[M](RTL)
	REP3144A	DVD REG P.C.B.	[M](RTL)
	REP2578A-N	CD LOADING P.C.B.	[M](RTL)
	REP2578A-N	CD DETECT P.C.B.	[M](RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M](RTL)
	REP3143A	PANEL P.C.B.	[M](RTL)
	REP3143A	MIC P.C.B.	[M](RTL)
	REP3143A	POWER P.C.B.	[M](RTL)
	REP3143A	POWER SWITCH P.C.B.	[M](RTL)
	REP3143A	SUB-TRANSFORMER P.C.B.	[M](RTL)
	REP3143A	AC TRANSFORMER P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC1	TA7291P	IC DRIVE	[M]
IC103	M5228FPE1	IC QUAD OP AMP	[M]
IC104	KIA4558FEL	IC DUAL OP AMP	[M]
IC106	M62444FPE1	IC DPL SURROUND DECODER	[M]
IC108	BU4053BCFE2	IC ANALOG SW	[M]
IC252	M5228FPE1	IC QUAD OP AMP	[M]
IC253	KIA4558FEL	IC DUAL AMP	[M]
IC401	M5218AP	IC DUAL AMP	[M]
IC402	M5228FPE1	IC QUAD OP AMP	[M]
IC451	C2BBFD000249	IC MECHA CONTROL	[M]
IC501	RSN311W64B-P	IC HIC	[M] ⚠
IC502	STK470-050A	IC HIC	[M] ⚠
IC601	C2BBGF000278	IC SYSTEM CONTROL	[M]
IC702	PQ1CZ31H2ZP	IC REGULATOR	[M] ⚠
IC703	LM2940T5M	IC REGULATOR	[M] ⚠
IC801	C2HBZC000012	IC DIGITAL SIGNAL PROCESSOR	[M]
IC802	NJU7313AMT2	IC ANALOG SWITCH	[M]
IC803	M5228FPE1	IC QUAD OP AMP	[M]
IC805	C2BBFD000306	IC DSP MECHA CONTROL	[M]
IC2001	MN67706EC	IC DIGITAL SWITCH CONTROL	[M]
IC2501	C0GBG0000020	IC MOTOR DRIVE	[M]
IC3001	MN677533MP	IC AV DECODER	[M]
IC3051	PQ018EZ01ZP	IC REGULATOR	[M] ⚠
IC3061	KM416S1DTG8T	IC SD RAM	[M]
IC3091	C0CBCBD00002	IC REGULATOR	[M] ⚠
IC3301	C1AB00001393	IC VBUFFER	[M]
IC4211	C0FBBK000021	IC 6CH AUDIO D/A CONVERTER	[M]
IC5201	AN8708FHK	IC FEP	[M]
IC6201	MN102H60GFA	IC CPU	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC6221	C0JBAA000001	IC INVERTER	[M]
IC6222	C0JBAA000001	IC INVERTER	[M]
IC6251	C0CBCBE00001	IC VIDEO	[M]
IC6301	PST596JNR	IC RESET	[M]
IC6302	RFKFRV45C040	IC 4M FLASH ROM	[SPC]
IC6303	C3EBEC000024	IC EE. PROM	[M]
IC6501	C1DB00000582	IC CLK	[M]
IC7001	MN103S13BGA	IC CPU	[M]
		TRANSISTORS	
Q1	RVTDTC143EST	TRANSISTOR	[M]
Q130	2SD2144STA	TRANSISTOR	[M]
Q131	2SD2144STA	TRANSISTOR	[M]
Q132	KRA111MTA	TRANSISTOR	[M]
Q133	2SD2144STA	TRANSISTOR	[M]
Q135	2SD1020HTA	TRANSISTOR	[M]
Q136	2SD1020HTA	TRANSISTOR	[M]
Q137	KRA111MTA	TRANSISTOR	[M]
Q142	2SD2144STA	TRANSISTOR	[M]
Q143	2SD2144STA	TRANSISTOR	[M]
Q251	IMX9T110	TRANSISTOR	[M]
Q252	IMX9T110	TRANSISTOR	[M]
Q253	IMX9T110	TRANSISTOR	[M]
Q254	DTC114YKA146	TRANSISTOR	[M]
Q255	DTA114EKA146	TRANSISTOR	[M]
Q256	DTC114YKA146	TRANSISTOR	[M]
Q401	2SD2144STA	TRANSISTOR	[M]
Q402	2SD2144STA	TRANSISTOR	[M]
Q403	2SD2144STA	TRANSISTOR	[M]
Q404	KRA111MTA	TRANSISTOR	[M]
Q405	KRA111MTA	TRANSISTOR	[M] ⚠
Q406	KRA111MTA	TRANSISTOR	[M]
Q407	KTC3199GRTA	TRANSISTOR	[M]
Q408	2SD2144STA	TRANSISTOR	[M]
Q409	KRA111MTA	TRANSISTOR	[M]
Q410	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q411	2SD2144STA	TRANSISTOR	[M]
Q412	2SD2144STA	TRANSISTOR	[M]
Q451	2SB621ARTA	TRANSISTOR	[M]
Q452	DTC114YKA146	TRANSISTOR	[M]
Q501	KTC3199GRTA	TRANSISTOR	[M]
Q502	KTC3199GRTA	TRANSISTOR	[M]
Q503	KTC3199GRTA	TRANSISTOR	[M]
Q504	KRA102MTA	TRANSISTOR	[M]
Q505	KTC3199GRTA	TRANSISTOR	[M]
Q531	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q541	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q551	2SA933SSTA	TRANSISTOR	[M]
Q552	KRC111MTA	TRANSISTOR	[M]
Q553	KTC3199GRTA	TRANSISTOR	[M]
Q554	2SB621ARTA	TRANSISTOR	[M]
Q555	KTC3199GRTA	TRANSISTOR	[M]
Q556	KTC3199GRTA	TRANSISTOR	[M]
Q557	2SA933SSTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q558	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q592	2SC3940AQSTA	TRANSISTOR	[M]
Q594	KRC102MTA	TRANSISTOR	[M]
Q601	RVTDTC124EST	TRANSISTOR	[M]
Q604	KRC114MTA	TRANSISTOR	[M]
Q606	KRC102MTA	TRANSISTOR	[M]
Q607	KRA102MTA	TRANSISTOR	[M] ⚠
Q608	KRC114MTA	TRANSISTOR	[M]
Q609	KRC114MTA	TRANSISTOR	[M]
Q610	KRC114MTA	TRANSISTOR	[M]
Q611	KRC114MTA	TRANSISTOR	[M]
Q612	KRC114MTA	TRANSISTOR	[M]
Q613	KRC114MTA	TRANSISTOR	[M]
Q701	DTA114EKA146	TRANSISTOR	[M]
Q702	DTC114YKA146	TRANSISTOR	[M] ⚠
Q703	KTA1046YU	TRANSISTOR	[M] ⚠
Q704	2SC2412KT96R	TRANSISTOR	[M] ⚠
Q705	2SA1037AKSTX	TRANSISTOR	[M]
Q708	KTA1046YU	TRANSISTOR	[M] ⚠
Q709	2SD2114K1V	TRANSISTOR	[M] ⚠
Q710	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q711	2SC2412KT96R	TRANSISTOR	[M] ⚠
Q712	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q713	2SC2412KT96R	TRANSISTOR	[M] ⚠
Q805	DTA114EKA146	TRANSISTOR	[M]
Q806	2SB1417PQTA	TRANSISTOR	[M] ⚠
Q807	2SC2412KT96R	TRANSISTOR	[M] ⚠
Q808	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q809	2SC2412KT96R	TRANSISTOR	[M] ⚠
Q5211	2SB1115-T	TRANSISTOR	[M]
Q5215	2SB1115-T	TRANSISTOR	[M]
QR3301	UN5212TX	CHIP TRANSISTOR	[M]
QR5251	UN2121-TX	CHIP TRANSISTOR	[M]
QR6301	UN5212TX	CHIP TRANSISTOR	[M]
		DIODES	
D2	MTZJ4R7BTA	DIODE	[M]
D102	UDZSTE175R1B	DIODE	[M]
D103	UDZSTE175R1B	DIODE	[M]
D251	1SS355TE17	DIODE	[M]
D252	1SS355TE17	DIODE	[M]
D401	MTZJ5R1BTA	DIODE	[M]
D451	1SS355TE17	DIODE	[M]
D455	RL1N4003N02	DIODE	[M]
D456	1SS355TE17	DIODE	[M]
D500	RVD1SS133TA	DIODE	[M]
D501	RK306LFU1	DIODE	[M]
D502	RK306LFU1	DIODE	[M]
D503	RVD1SS133TA	DIODE	[M]
D504	RVD1SS133TA	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D505	RVD1SS133TA	DIODE	[M]
D506	RVD1SS133TA	DIODE	[M]
D507	RVD1SS133TA	DIODE	[M]
D520	RVD1SS133TA	DIODE	[M]
D521	1N5402BM21	DIODE	[M] ⚠
D522	1N5402BM21	DIODE	[M] ⚠
D523	1N5402BM21	DIODE	[M] ⚠
D524	1N5402BM21	DIODE	[M] ⚠
D525	1N5402BM21	DIODE	[M] ⚠
D526	1N5402BM21	DIODE	[M] ⚠
D527	1D3E	DIODE	[M]
D528	1D3E	DIODE	[M]
D531	1D3E	DIODE	[M]
D532	1D3E	DIODE	[M]
D533	1D3E	DIODE	[M]
D534	1D3E	DIODE	[M]
D535	1D3E	DIODE	[M]
D536	1D3E	DIODE	[M]
D539	MTZJ9R1BTA	DIODE	[M]
D541	1D3E	DIODE	[M]
D542	1D3E	DIODE	[M]
D543	1D3E	DIODE	[M]
D544	1D3E	DIODE	[M]
D545	1D3E	DIODE	[M]
D546	1D3E	DIODE	[M]
D547	MTZJ27DTA	DIODE	[M]
D551	RVD1SS133TA	DIODE	[M]
D552	RVD1SS133TA	DIODE	[M]
D553	RVD1SS133TA	DIODE	[M]
D556	MA700ATA	DIODE	[M]
D557	MA700ATA	DIODE	[M]
D591	1D3E	DIODE	[M]
D592	1D3E	DIODE	[M]
D595	MTZJ6R8ATA	DIODE	[M]
D601	1SS355TE17	DIODE	[M]
D602	1SS380TE-17	DIODE	[M]
D603	1SS380TE-17	DIODE	[M]
D604	1SS380TE-17	DIODE	[M]
D607	MA729TX	DIODE	[M]
D608	UDZSTE175R6B	DIODE	[M]
D609	1SS355TE17	DIODE	[M]
D610	1SS355TE17	DIODE	[M]
D611	SLR325VCT31	DIODE	[M]
D613	SML72755C	DIODE	[M]
D614	SLR325MCT31W	DIODE	[M]
D615	SLR325MCT31W	DIODE	[M]
D616	SLR325MCT31W	DIODE	[M]
D617	SLR325MCT31W	DIODE	[M]
D618	SLR325MCT31W	DIODE	[M]
D619	SELS5823C	DIODE	[M]
D668	1SS355TE17	DIODE	[M]
D701	RL1N4003N02	DIODE	[M] ⚠
D702	RL1N4003N02	DIODE	[M] ⚠
D703	RL1N4003N02	DIODE	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
D704	RL1N4003N02	DIODE	[M] ⚠
D705	DA204KT146	DIODE	[M]
D706	UDZSTE175R1B	DIODE	[M]
D707	UDZSTE179R1B	DIODE	[M]
D708	1SS355TE17	DIODE	[M]
D709	SFPB-72V	DIODE	[M]
D710	UDZSTE177R5B	DIODE	[M]
D711	DA204KT146	DIODE	[M]
D712	DA204KT146	DIODE	[M]
D713	DA204KT146	DIODE	[M]
D714	1SS355TE17	DIODE	[M]
D715	1SS355TE17	DIODE	[M]
D716	1SS355TE17	DIODE	[M]
D801	RL1N4003N02	DIODE	[M]
D802	RL1N4003N02	DIODE	[M]
D803	DA204KT146	DIODE	[M]
D804	DA204KT146	DIODE	[M]
D805	UDZSTE175R1B	DIODE	[M]
D2001	MA111TX	DIODE	[M]
D3091	MA111TX	DIODE	[M]
D5251	MA728TX	DIODE	[M]
D6301	MA728TX	DIODE	[M]
LB2001	JALBK2HS470T	CHIP INDUCTOR	[M]
LB2002	JALBK2HS470T	CHIP INDUCTOR	[M]
LB2003	VLP0323A601R	CHIP INDUCTOR	[M]
LB2004	VLP0323A601R	CHIP INDUCTOR	[M]
LB2005	VLP0323A601R	CHIP INDUCTOR	[M]
LB2006	VLP0323A601R	CHIP INDUCTOR	[M]
LB2007	VLP0323A601R	CHIP INDUCTOR	[M]
LB2008	VLP0323A601R	CHIP INDUCTOR	[M]
LB2009	VLP0323A601R	CHIP INDUCTOR	[M]
LB2010	VLP0323A601R	CHIP INDUCTOR	[M]
LB2011	VLP0323A601R	CHIP INDUCTOR	[M]
LB2012	VLP0323A601R	CHIP INDUCTOR	[M]
LB2013	VLP0323A601R	CHIP INDUCTOR	[M]
LB2014	VLP0323A601R	CHIP INDUCTOR	[M]
LB2015	VLP0323A601R	CHIP INDUCTOR	[M]
LB2016	VLP0323A601R	CHIP INDUCTOR	[M]
LB2017	VLP0323A601R	CHIP INDUCTOR	[M]
LB2018	VLP0323A601R	CHIP INDUCTOR	[M]
LB2019	VLP0323A601R	CHIP INDUCTOR	[M]
LB2020	VLP0323A601R	CHIP INDUCTOR	[M]
LB2021	VLP0323A601R	CHIP INDUCTOR	[M]
LB2022	VLP0323A601R	CHIP INDUCTOR	[M]
LB2023	VLP0323A601R	CHIP INDUCTOR	[M]
LB2024	VLP0323A601R	CHIP INDUCTOR	[M]
LB2025	VLP0323A601R	CHIP INDUCTOR	[M]
LB2026	VLP0323A601R	CHIP INDUCTOR	[M]
LB2027	VLP0323A601R	CHIP INDUCTOR	[M]
LB2028	VLP0323A601R	CHIP INDUCTOR	[M]
LB2029	VLP0323A601R	CHIP INDUCTOR	[M]
LB2030	VLP0323A601R	CHIP INDUCTOR	[M]
LB2031	VLP0323A601R	CHIP INDUCTOR	[M]
LB2032	VLP0323A601R	CHIP INDUCTOR	[M]
LB2033	VLP0323A601R	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB2034	VLP0323A601R	CHIP INDUCTOR	[M]
LB2035	VLP0323A601R	CHIP INDUCTOR	[M]
LB3001	JALBK2HS470T	CHIP INDUCTOR	[M]
LB3002	JALBK2HS470T	CHIP INDUCTOR	[M]
LB3202	VLP0323A601R	CHIP INDUCTOR	[M]
LB3203	VLP0323A601R	CHIP INDUCTOR	[M]
LB3204	VLP0323A601R	CHIP INDUCTOR	[M]
LB3206	VLP0155-T	CHIP BEAD	[M]
LB3207	VLP0155-T	CHIP BEAD	[M]
LB3301	VLP0155-T	CHIP BEAD	[M]
LB3302	VLP0155-T	CHIP BEAD	[M]
LB3303	VLP0155-T	CHIP BEAD	[M]
LB3304	VLP0155-T	CHIP BEAD	[M]
LB3305	VLP0155-T	CHIP BEAD	[M]
LB4200	VLP0323A601R	CHIP INDUCTOR	[M]
LB4201	VLP0323A601R	CHIP INDUCTOR	[M]
LB4207	VLP0323A601R	CHIP INDUCTOR	[M]
LB4208	VLP0323A601R	CHIP INDUCTOR	[M]
LB4209	VLP0323A601R	CHIP INDUCTOR	[M]
LB4210	VLP0323A601R	CHIP INDUCTOR	[M]
LB4211	VLP0323A601R	CHIP INDUCTOR	[M]
LB4212	VLP0323A601R	CHIP INDUCTOR	[M]
LB4213	VLP0323A601R	CHIP INDUCTOR	[M]
LB4214	VLP0323A601R	CHIP INDUCTOR	[M]
LB4215	VLP0323A601R	CHIP INDUCTOR	[M]
LB4216	VLP0323A601R	CHIP INDUCTOR	[M]
LB4217	VLP0323A601R	CHIP INDUCTOR	[M]
LB5201	JALBK2HS470T	CHIP INDUCTOR	[M]
LB5202	VLP0323A601R	CHIP INDUCTOR	[M]
LB5203	VLP0155-T	CHIP BEAD	[M]
LB5204	VLP0155-T	CHIP BEAD	[M]
LB5205	VLP0323A601R	CHIP INDUCTOR	[M]
LB5206	VLP0323A601R	CHIP INDUCTOR	[M]
LB6201	VLP0323A601R	CHIP INDUCTOR	[M]
LB6202	VLP0155-T	CHIP BEAD	[M]
LB6221	VLP0323A601R	CHIP INDUCTOR	[M]
LB6501	VLP0323A601R	CHIP INDUCTOR	[M]
LB6502	VLP0323A601R	CHIP INDUCTOR	[M]
LB6512	VLP0155-T	CHIP BEAD	[M]
LB6513	VLP0323A601R	CHIP INDUCTOR	[M]
LB6514	VLP0155-T	CHIP BEAD	[M]
LB6515	VLP0157-T	CHIP INDUCTOR	[M]
LB7001	JALBK2HS470T	CHIP INDUCTOR	[M]
LB7002	JALBK2HS470T	CHIP INDUCTOR	[M]
		VARIABLE RESISTORS	
VR601	EVEKE2F3024B	VR VOLUME JOG	[M]
		SWITCHES	
S621	EVQ11G05R	SW POWER ON/OFF	[M]
S622	EVQ11G05R	SW DISC 1	[M]
S623	EVQ11G05R	SW DISC 2	[M]
S624	EVQ11G05R	SW DISC 3	[M]
S625	EVQ11G05R	SW DISC 4	[M]
S626	EVQ11G05R	SW DISC 5	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S630	EVQ11G05R	SW OPEN	[M]
S631	EVQ11G05R	SW STOP	[M]
S632	EVQ11G05R	SW PAUSE	[M]
S633	EVQ11G05R	SW PLAY	[M]
S634	EVQ11G05R	SW REV SKIP	[M]
S635	EVQ11G05R	SW FWD SKIP	[M]
S636	EVQ11G05R	SW SELECTOR	[M]
S637	EVQ11G05R	SW SUB. WOOFER LEVEL	[M]
		SWITCHES	
SW1	RSH1A032-U	SW PUSH	[M]
SW2	RSH1A032-U	SW PUSH	[M]
SW3	RSH1A005-1U	SWITCH	[M]
SW4	RSH1A91ZA-A	SW CD	[M]
SW5	RSP1A017-A	SW LOCK	[M]
SW2501	RSH1A048-A	SW LEAF	[M]
		CONNECTORS	
CN1	RJS1A9314	14P CONNECTOR	[M]
CN1	RJS1A9414	FF CONNECTOR	[M]
CN101	RJS2A5615	15P P1 FFC CONNECTOR	[M]
CN102	RJS1A5212	12P CONNECTOR	[M]
CN103	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN104	RJU057G10	10P P2 MQ CONNECTOR	[M]
CN106	RJS2A7726	FFC CONNECTOR	[M]
CN501	RJP5G4YA	CONNECTOR	[M]
CN503	RJP12G4YA	CONNECTOR	[M]
CN601	RJS1A6222-1	22 FFC CON	[M]
CN602	RJS1A6214-1	14P FFC CONNECTOR	[M]
CN603A	RJS1A6211-1	11P FFC BOTTOM INSER	[M]
CN603B	RJS1A6811	CONEKUTA	[M]
CN604	RJS1A9414	FF CONNECTOR	[M]
CN701	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN703	RJU057G09	9P CONNECTOR	[M]
CN704	RJU057W004	SOCKET (4P)	[M]
CN801	RJU057G10	P2 MQ CONNECTOR 10P	[M]
CN802	RJU057G10	P2 MQ CONNECTOR 10P	[M]
CN804	RJU057G10	P2 MQ CONNECTOR 10P	[M]
CN805	RJS1A9314	14P CONNMECTOR	[M]
CN806	RJS2A7726	FFC CONNECTOR	[M]
CN901	RJS1A9422	22 FFC CON	[M]
CN902	RJS1A9414	FF CONNECTOR	[M]
CN904	RJT029W02V-1	MECHA SW CONNECTOR	[M]
CN1304	RJS2A7726	FFC CONNECTOR	[M]
CP103	RJT057G12	12P P2 MQ CONNECTOR	[M]
CP104	RJT057G10	10P P2 MQ CONNECTOR	[M]
CP251	RJT100W11	11P CONNECTOR	[M]
CP701	RJT057G12	12P P2 MQ CONNECTOR	[M]
CP703	RJT057G09	9P B-B CONNECTOR	[M]
CP704	RJP2G4YA	CONNECTOR	[M]
CP704	RJT057W004-1	4P CONNECTOR	[M]
CP705	RJT029W03VT	CONNECTOR	[M]
CP801	RJT057G10	10P P2 MQ CONNECTOR	[M]
CP802	RJT057G10	10P P2 MQ CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CP804	RJT057G10	10P P2 MQ CONNECTOR	[M]
CP6251	RJS2A7717	FFC CONNECTOR	[M]
PS6201	VJS2961C010	10 PIN CONNECTOR	[M]
		COILS & TRANSFORMERS	
L102	VLP0145-T	CHIP INDUCTOR	[M]
L103	VLP0145-T	CHIP INDUCTOR	[M]
L104	VLP0145-T	CHIP INDUCTOR	[M]
L451	RLQB101KT-1Y	COIL	[M]
L452	RLQB100JTD-D	INDUCTOR	[M]
L500	RLQZ371	LINE FILTER	[M] ⚠
L601	RLBN102V-Y	CHIP INDUCTOR	[M]
L602	RLBN102V-Y	CHIP INDUCTOR	[M]
L701	RLL500050T-Y	RF CHOKE COIL	[M]
L702	RLQX101M-T	COIL	[M]
L703	RLL500050T-Y	RF CHOKE COIL	[M]
L704	RLL500050T-Y	RF CHOKE COIL	[M]
L705	RLL500050T-Y	RF CHOKE COIL	[M]
L801	RLBN102V-Y	CHIP INDUCTOR	[M]
L802	RLQB100JTD-D	INDUCTOR	[M]
L803	RLQB100JTD-D	INDUCTOR	[M]
L804	RLBN102V-Y	CHIP INDUCTOR	[M]
L805	RLBN102V-Y	CHIP INDUCTOR	[M]
L806	RLQB100JTD-D	INDUCTOR	[M]
L905	RLBV252AV-Y	LINE COIL	[M]
L906	RLBV252AV-Y	LINE COIL	[M]
L907	RLBV252AV-Y	LINE COIL	[M]
L908	RLBV252AV-Y	LINE COIL	[M]
L909	RLBV252AV-Y	LINE COIL	[M]
L910	RLBV252AV-Y	LINE COIL	[M]
L2001	G1C100KA0019	CHIP INDUCTOR	[M]
L2002	G1C100KA0019	CHIP INDUCTOR	[M]
L2003	G1C100KA0008	CHIP INDUCTOR	[M]
L3091	G1C100KA0008	CHIP INDUCTOR	[M]
L3301	G1C220K00011	CHIP INDUCTOR	[M]
L4211	G1C220K00011	CHIP INDUCTOR	[M]
L5201	ELJEA100KF	CHIP INDUCTOR	[M]
L5202	ELJEA100KF	CHIP INDUCTOR	[M]
L5251	ELJEA100KF	CHIP INDUCTOR	[M]
L6501	G1C220JA0010	CHIP INDUCTOR	[M]
L6502	ELJFC220KF	CHIP INDUCTOR	[M]
T501	RTP2N3C010	AC TRANSFORMER	[M] ⚠
T502	RTP1H3E002	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z501	ERZV10V511CS	ZENER	[M] ⚠
Z601	RCDGP1U28XD	REMOTE SENSOR	[M]
		RELAY	
RLY501	RSY0040M-0	PRIMARY RELAY	[M] ⚠
RLY502	RSY0017M-0	RELAY	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		OSCILLATORS	
X451	RSXY8M00D01T	CERAMIC RESONATOR	[M]
X602	H2B400400013	OSCILLATOR	[M]
X801	RSXZ36M8M01T	RESONATOR	[M]
X802	RSXY8M00D01T	CERAMIC RESONATOR	[M]
X6501	VSX1044	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	
FL601	RSL0307-F	FL	[M]
FL4201	VLF1505M105T	CHIP FILTER	[M]
FL6251	VLF1505M105T	CHIP FILTER	[M]
FL6253	VLF1505M105T	CHIP FILTER	[M]
FL6254	VLF1505M105T	CHIP FILTER	[M]
FL6255	VLF1491S104T	CHIP FILTER	[M]
		FUSES	
F1	XBA1C50NBAL	FUSE	[M] ⚠
		FUSE HOLDERS	
FC501	EYF52BC	FUSE HOLDER	[M]
FC502	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP549	RSFMB05KT-L	FUSE PROTECTOR	[M] ⚠
FP591	RSFMB40KT-L	FUSE PROTECTOR	[M] ⚠
FP702	RSFMB40KT-L	FUSE PROTECTOR	[M] ⚠
FP2001	K1MN50B00010	CONNECTOR	[M]
FP3202	RJS2A7517T	CONNECTOR	[M]
FP3203	RJS2A7515T	FMN CNNECTOR	[M]
FP4202	RJS2A7526T	FMN CNNECTOR	[M]
FP5201	K1MN30B00062	CONNECTOR	[M]
FP5202	K1MN50B00010	CONNECTOR	[M]
		HOLDERS	
H501	RJS1A5505	5P WIRE HOLDER	[M]
H503	RJS1A5512	12P WIRE HOLDER	[M]
H505	RMR0321	12P CABLE HOLDER	[M]
		JACKS	
JK101	RJH8203N	JK VIDEO	[M]
JK103	RJH2213N	JK 2P RCA PIN	[M]
JK104	RJH2603N-5	JK 6 PIN	[M]
JK500	SJSD16-J	JK AC INLET	[M]
JK501	RJH5603-4	JK SPEAKER TERMINAL	[M]
JK502	RJH5603-5	JK SPEAKER TERMINAL	[M]
JK603	RJJ65TN01-X	JK MIC	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		EARTH TERMINAL	
E501	SNE1004-2	EARTH TERMINAL	[M]
E502	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REE1042	1P PRI WIRES	[M]
W1	REZ1023-1	4P WIRE	[M]
W2	REE1043	1P PRI WIRES	[M]
W2	REZ1024	3P WIRE	[M]
W501	REX1037	5P WIRE	[M]
W503	REX1035	12P WIRE	[M]
W505	RWJ1112080RX	11P WIRE	[M]
W705	REX1036	2P WIRE	[M]
W904	REX1087	2P WIRE	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R129	ERJ3GEYJ472V	4.7K 1/16W	[M]
R130	ERJ3GEYJ104V	100K 1/16W	[M]
R131	ERJ3GEYJ104V	100K 1/16W	[M]
R132	ERJ3GEYJ102V	1K 1/16W	[M]
R133	ERJ3GEYJ154V	150K 1/16W	[M]
R134	ERJ3GEYJ104V	100K 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ101V	100 1/16W	[M]
R137	ERJ3GEYJ562V	5.6K 1/16W	[M]
R138	ERJ3GEYJ273V	27K 1/16W	[M]
R139	ERJ3GEYJ562V	5.6K 1/16W	[M]
R140	ERJ3GEYJ273V	27K 1/16W	[M]
R141	ERJ3GEYJ101V	100 1/16W	[M]
R142	ERJ3GEYJ104V	100K 1/16W	[M]
R143	ERJ3GEYJ104V	100K 1/16W	[M]
R144	ERJ3GEYJ823V	82K 1/16W	[M]
R145	ERJ3GEYJ472V	4.7K 1/16W	[M]
R146	ERJ3GEYJ472V	4.7K 1/16W	[M]
R147	ERJ3GEYJ104V	100K 1/16W	[M]
R148	ERJ3GEYJ102V	1K 1/16W	[M]
R149	ERJ3GEYJ102V	1K 1/16W	[M]
R150	ERJ3GEYJ102V	1K 1/16W	[M]
R153	ERJ3GEYJ473V	47K 1/16W	[M]
R154	ERJ3GEYJ102V	1K 1/16W	[M]
R155	ERJ3GEYJ222V	2.2K 1/16W	[M]
R156	ERJ3GEYJ222V	2.2K 1/16W	[M]
R157	ERJ3GEYJ102V	1K 1/16W	[M]
R158	ERJ3GEYJ104V	100K 1/16W	[M]
R159	ERJ3GEYJ473V	47K 1/16W	[M]
R160	ERJ3GEYJ102V	1K 1/16W	[M]
R161	ERJ3GEYJ222V	2.2K 1/16W	[M]
R162	ERJ3GEYJ102V	1K 1/16W	[M]
R163	ERJ3GEYJ681V	680 1/16W	[M]
R164	ERJ3GEYJ103V	10K 1/16W	[M]
R165	ERJ3GEYJ272V	2.7K 1/16W	[M]
R166	ERJ3GEYJ183V	18K 1/16W	[M]
R167	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R168	ERJ3GEYJ123V	12K 1/16W	[M]
R169	ERJ3GEYJ392V	3.9K 1/16W	[M]
R181	ERJ3GEYJ473V	47K 1/16W	[M]
R182	ERJ3GEYJ473V	47K 1/16W	[M]
R183	ERJ3GEYJ563V	56K 1/16W	[M]
R184	ERJ3GEYJ563V	56K 1/16W	[M]
R186	ERJ3GEYJ332V	3.3K 1/16W	[M]
R187	ERJ3GEYJ332V	3.3K 1/16W	[M]
R196	ERJ3GEYJ123V	12K 1/16W	[M]
R197	ERJ3GEYJ392V	3.9K 1/16W	[M]
R198	ERJ3GEYJ123V	12K 1/16W	[M]
R199	ERJ3GEYJ392V	3.9K 1/16W	[M]
R200	ERJ3GEYJ102V	1K 1/16W	[M]
R201	ERJ3GEYJ392V	3.9K 1/16W	[M]
R203	ERJ3GEYJ183V	18K 1/16W	[M]
R204	ERJ3GEYJ102V	1K 1/16W	[M]
R205	ERJ3GEYJ392V	3.9K 1/16W	[M]
R207	ERJ3GEYJ183V	18K 1/16W	[M]
R209	ERJ3GEYJ1R8V	1.8 1/16W	[M]
R210	ERJ3GEYJ123V	12K 1/16W	[M]
R211	ERJ3GEYJ102V	1K 1/16W	[M]
R212	ERJ3GEYJ123V	12K 1/16W	[M]
R213	ERJ3GEYJ332V	3.3K 1/16W	[M]
R214	ERJ3GEYJ391V	390 1/16W	[M]
R215	ERJ3GEYJ222V	2.2K 1/16W	[M]
R216	ERJ3GEYJ222V	2.2K 1/16W	[M]
R217	ERJ3GEYJ472V	4.7K 1/16W	[M]
R218	ERJ3GEYJ473V	47K 1/16W	[M]
R219	ERJ3GEYJ473V	47K 1/16W	[M]
R220	ERJ3GEYJ473V	47K 1/16W	[M]
R221	ERJ3GEYJ222V	2.2K 1/16W	[M]
R229	ERJ3GEYJ123V	12K 1/16W	[M]
R230	ERJ3GEYJ392V	3.9K 1/16W	[M]
R231	ERJ3GEYJ123V	12K 1/16W	[M]
R232	ERJ3GEYJ392V	3.9K 1/16W	[M]
R233	ERJ3GEYJ123V	12K 1/16W	[M]
R234	ERJ3GEYJ392V	3.9K 1/16W	[M]
R235	ERJ3GEYJ122V	1.2K 1/16W	[M]
R236	ERJ3GEYJ104V	100K 1/16W	[M]
R237	ERJ3GEYJ122V	1.2K 1/16W	[M]
R238	ERJ3GEYJ104V	100K 1/16W	[M]
R241	ERJ3GEYJ152V	1.5K 1/16W	[M]
R242	ERJ3GEYJ153V	15K 1/16W	[M]
R243	ERJ3GEYJ152V	1.5K 1/16W	[M]
R244	ERJ3GEYJ102V	1K 1/16W	[M]
R245	ERJ3GEYJ102V	1K 1/16W	[M]
R246	ERJ3GEYJ102V	1K 1/16W	[M]
R251	ERJ3GEYJ104V	100K 1/16W	[M]
R252	ERJ3GEYJ471V	470 1/16W	[M]
R253	ERJ3GEYJ471V	470 1/16W	[M]
R254	ERJ3GEYJ104V	100K 1/16W	[M]
R255	ERJ3GEYJ104V	100K 1/16W	[M]
R256	ERJ3GEYJ102V	1K 1/16W	[M]
R257	ERJ3GEYJ123V	12K 1/16W	[M]
R258	ERJ3GEYJ182V	1.8K 1/16W	[M]
R259	ERJ3GEYJ682V	6.8K 1/16W	[M]
R260	ERJ3GEYJ332V	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R261	ERJ3GEYJ682V	6.8K 1/16W	[M]
R262	ERJ3GEYJ332V	3.3K 1/16W	[M]
R263	ERJ3GEYJ822V	8.2K 1/16W	[M]
R264	ERJ3GEYJ272V	2.7K 1/16W	[M]
R265	ERJ3GEYJ103V	10K 1/16W	[M]
R266	ERJ3GEYJ103V	10K 1/16W	[M]
R267	ERJ3GEYJ104V	100K 1/16W	[M]
R268	ERJ3GEYJ104V	100K 1/16W	[M]
R269	ERJ3GEYJ223V	22K 1/16W	[M]
R270	ERJ3GEYJ223V	22K 1/16W	[M]
R271	ERJ3GEYJ183V	18K 1/16W	[M]
R272	ERJ3GEYJ183V	18K 1/16W	[M]
R273	ERJ3GEYJ102V	1K 1/16W	[M]
R274	ERJ3GEYJ102V	1K 1/16W	[M]
R275	ERJ3GEYJ154V	150K 1/16W	[M]
R276	ERJ3GEYJ154V	150K 1/16W	[M]
R277	ERJ3GEYJ103V	10K 1/16W	[M]
R278	ERJ3GEYJ103V	10K 1/16W	[M]
R279	ERJ3GEYJ104V	100K 1/16W	[M]
R280	ERJ3GEYJ104V	100K 1/16W	[M]
R281	ERJ3GEYJ223V	22K 1/16W	[M]
R282	ERJ3GEYJ223V	22K 1/16W	[M]
R283	ERJ3GEYJ183V	18K 1/16W	[M]
R284	ERJ3GEYJ183V	18K 1/16W	[M]
R285	ERJ3GEYJ102V	1K 1/16W	[M]
R286	ERJ3GEYJ102V	1K 1/16W	[M]
R287	ERJ3GEYJ103V	10K 1/16W	[M]
R288	ERJ3GEYJ103V	10K 1/16W	[M]
R289	ERJ3GEYJ104V	100K 1/16W	[M]
R290	ERJ3GEYJ104V	100K 1/16W	[M]
R291	ERJ3GEYJ223V	22K 1/16W	[M]
R292	ERJ3GEYJ223V	22K 1/16W	[M]
R293	ERJ3GEYJ183V	18K 1/16W	[M]
R294	ERJ3GEYJ273V	27K 1/16W	[M]
R295	ERJ3GEYJ102V	1K 1/16W	[M]
R296	ERJ3GEYJ102V	1K 1/16W	[M]
R297	ERJ3GEYJ102V	1K 1/16W	[M]
R298	ERJ3GEYJ102V	1K 1/16W	[M]
R299	ERJ3GEYJ102V	1K 1/16W	[M]
R300	ERJ3GEYJ102V	1K 1/16W	[M]
R301	ERJ3GEYJ102V	1K 1/16W	[M]
R302	ERJ3GEYJ102V	1K 1/16W	[M]
R303	ERJ3GEYJ473V	47K 1/16W	[M]
R304	ERJ3GEYJ473V	47K 1/16W	[M]
R305	ERJ3GEYJ473V	47K 1/16W	[M]
R306	ERJ3GEYJ473V	47K 1/16W	[M]
R307	ERJ3GEYJ473V	47K 1/16W	[M]
R308	ERJ3GEYJ473V	47K 1/16W	[M]
R319	ERJ3GEYJ102V	1K 1/16W	[M]
R320	ERJ3GEYJ223V	22K 1/16W	[M]
R321	ERJ3GEYJ223V	22K 1/16W	[M]
R401	ERDS2TJ822T	8.2K 1/4W	[M]
R402	ERDS2TJ823T	82K 1/4W	[M]
R403	ERDS2TJ102T	1K 1/4W	[M]
R404	ERDS2TJ103T	10K 1/4W	[M]
R405	ERDS2TJ104T	100K 1/4W	[M]
R406	ERDS2TJ104T	100K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R407	ERDS2TJ102T	1K 1/4W	[M]
R408	ERDS2TJ102T	1K 1/4W	[M]
R409	ERDS2TJ332T	3.3K 1/4W	[M]
R410	ERDS2TJ332T	3.3K 1/4W	[M]
R411	ERDS2TJ332T	3.3K 1/4W	[M]
R412	ERDS2TJ332T	3.3K 1/4W	[M]
R413	ERDS2TJ683T	68K 1/4W	[M]
R414	ERDS2TJ683T	68K 1/4W	[M]
R415	ERDS2TJ390T	39 1/4W	[M]
R416	ERDS2TJ390T	39 1/4W	[M]
R417	ERDS2TJ390T	39 1/4W	[M]
R418	ERDS2TJ390T	39 1/4W	[M]
R419	ERDS2TJ154T	150K 1/4W	[M]
R420	ERDS2TJ101T	100 1/4W	[M]
R421	ERDS2TJ101T	100 1/4W	[M]
R423	ERDS2TJ124T	120K 1/4W	[M]
R424	ERDS2TJ102T	1K 1/4W	[M]
R425	ERDS2TJ272T	2.7K 1/4W	[M]
R426	ERDS2TJ102T	1K 1/4W	[M]
R427	ERDS2TJ123T	12K 1/4W	[M]
R428	ERDS2TJ332T	3.3K 1/4W	[M]
R429	ERDS2TJ102T	1K 1/4W	[M]
R430	ERDS2TJ333T	33K 1/4W	[M]
R431	ERDS2TJ183T	18K 1/4W	[M]
R432	ERDS2TJ104T	100K 1/4W	[M]
R433	ERDS2TJ104T	100K 1/4W	[M]
R434	ERDS2TJ153T	15K 1/4W	[M]
R435	ERDS2TJ274T	270K 1/4W	[M]
R436	ERDS2TJ823T	82K 1/4W	[M]
R437	ERDS2TJ823T	82K 1/4W	[M]
R438	ERDS2TJ822T	8.2K 1/4W	[M]
R439	ERDS2TJ153T	15K 1/4W	[M]
R440	ERDS2TJ153T	15K 1/4W	[M]
R441	ERDS2TJ393T	39K 1/4W	[M]
R442	ERDS2TJ393T	39K 1/4W	[M]
R443	ERDS2TJ102T	1K 1/4W	[M]
R444	ERDS2TJ103T	10K 1/4W	[M]
R445	ERDS2TJ222T	2.2K 1/4W	[M]
R446	ERDS2TJ102T	1K 1/4W	[M]
R447	ERDS2TJ104T	100K 1/4W	[M]
R448	ERDS2TJ154T	150K 1/4W	[M]
R449	ERDS2TJ100T	10 1/4W	[M]
R450	ERDS2TJ100T	10 1/4W	[M]
R452	ERJ3GEYJ103V	10K 1/16W	[M]
R453	ERJ3GEYJ821V	820 1/16W	[M]
R454	ERJ3GEYJ103V	10K 1/16W	[M]
R455	ERJ3GEYJ221V	220 1/16W	[M]
R456	ERJ3GEYJ221V	220 1/16W	[M]
R457	ERJ3GEYJ221V	220 1/16W	[M]
R458	ERJ3GEYJ221V	220 1/16W	[M]
R459	ERJ3GEYJ221V	220 1/16W	[M]
R460	ERJ3GEYJ681V	680 1/16W	[M]
R461	ERJ3GEYJ102V	1K 1/16W	[M]
R462	ERJ3GEYJ221V	220 1/16W	[M]
R463	ERJ3GEYJ103V	10K 1/16W	[M]
R464	ERJ3GEYJ104V	100K 1/16W	[M]
R465	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R466	ERJ3GEYJ473V	47K 1/16W	[M]
R467	ERJ3GEYJ472V	4.7K 1/16W	[M]
R468	ERJ3GEYJ472V	4.7K 1/16W	[M]
R469	ERJ3GEYJ472V	4.7K 1/16W	[M]
R470	ERJ3GEYJ472V	4.7K 1/16W	[M]
R471	ERJ3GEYJ221V	220 1/16W	[M]
R472	ERJ3GEYJ221V	220 1/16W	[M]
R473	ERJ3GEYJ221V	220 1/16W	[M]
R474	ERJ3GEYJ221V	220 1/16W	[M]
R475	ERJ3GEYJ103V	10K 1/16W	[M]
R476	ERJ3GEYJ221V	220 1/16W	[M]
R478	ERJ3GEYJ472V	4.7K 1/16W	[M]
R479	ERJ3GEYJ104V	100K 1/16W	[M]
R480	ERJ3GEYJ103V	10K 1/16W	[M]
R481	ERJ3GEYJ103V	10K 1/16W	[M]
R482	ERJ3GEYJ103V	10K 1/16W	[M]
R483	ERJ3GEYJ103V	10K 1/16W	[M]
R484	ERJ3GEYJ102V	1K 1/16W	[M]
R485	ERJ3GEYJ472V	4.7K 1/16W	[M]
R486	ERJ3GEYJ472V	4.7K 1/16W	[M]
R491	ERJ3GEYJ221V	220 1/16W	[M]
R492	ERJ3GEYJ221V	220 1/16W	[M]
R500	ERC12UGK335D	3.3M 1/2W	[M] ⚠
R501	ERDS2TJ392T	3.9K 1/4W	[M]
R502	ERDS2TJ392T	3.9K 1/4W	[M]
R503	ERDS2TJ153T	15K 1/4W	[M]
R504	ERDS2TJ153T	15K 1/4W	[M]
R505	ERDS2TJ153T	15K 1/4W	[M]
R506	ERDS2TJ153T	15K 1/4W	[M]
R507	ERDS2TJ392T	3.9K 1/4W	[M]
R508	ERDS2TJ392T	3.9K 1/4W	[M]
R509	ERDS2TJ392T	3.9K 1/4W	[M]
R510	ERDS2TJ472T	4.7K 1/4W	[M]
R511	ERDS2TJ153T	15K 1/4W	[M]
R512	ERDS2TJ153T	15K 1/4W	[M]
R513	ERDS2TJ563T	56K 1/4W	[M]
R514	ERDS2TJ563T	56K 1/4W	[M]
R515	ERDS2TJ563T	56K 1/4W	[M]
R516	ERDS2TJ563T	56K 1/4W	[M]
R517	ERDS2TJ563T	56K 1/4W	[M]
R518	ERDS2TJ563T	56K 1/4W	[M]
R519	ERDS2TJ474T	470K 1/4W	[M]
R520	ERDS2TJ103T	10K 1/4W	[M]
R521	ERDS2TJ223T	22K 1/4W	[M]
R522	ERDS2TJ103T	10K 1/4W	[M]
R523	ERDS2TJ124T	120K 1/4W	[M]
R524	ERDS2TJ104T	100K 1/4W	[M]
R525	ERDS2TJ563T	56K 1/4W	[M]
R526	ERDS2TJ473T	47K 1/4W	[M]
R527	ERDS2TJ184T	180K 1/4W	[M]
R528	ERDS2TJ154T	150K 1/4W	[M]
R529	ERDS2TJ223T	22K 1/4W	[M]
R530	ERDS1FVJ100T	10 1/2W	[M]
R531	ERDS1FVJ100T	10 1/2W	[M]
R532	ERDS2TJ183T	18K 1/4W	[M]
R533	ERDS2TJ153T	15K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R535	ERDS2TJ390T	39 1/4W	[M]
R536	ERDS2TJ390T	39 1/4W	[M]
R537	ERDS2TJ390T	39 1/4W	[M]
R538	ERDS2TJ223T	22K 1/4W	[M]
R539	ERDS1FVJ100T	10 1/2W	[M]
R540	ERDS1FVJ100T	10 1/2W	[M]
R541	ERDS1FVJ100T	10 1/2W	[M]
R542	ERDS1FVJ100T	10 1/2W	[M]
R543	ERDS2TJ2R2T	2.2 1/4W	[M]
R544	ERDS2TJ2R2T	2.2 1/4W	[M]
R545	ERDS2TJ184T	180K 1/4W	[M]
R546	ERDS2TJ224T	220K 1/4W	[M]
R547	ERDS2TJ222T	2.2K 1/4W	[M]
R548	ERDS2TJ104T	100K 1/4W	[M]
R550	ERDS1FVJ2R2T	2.2 1/2W	[M]
R551	ERDS2TJ102T	1K 1/4W	[M]
R552	ERDS2TJ102T	1K 1/4W	[M]
R554	ERDS2TJ153T	15K 1/4W	[M]
R555	ERDS2TJ392T	3.9K 1/4W	[M]
R556	ERDS2TJ152T	1.5K 1/4W	[M]
R557	ERDS2TJ332T	3.3K 1/4W	[M]
R558	ERDS2TJ152T	1.5K 1/4W	[M]
R559	ERDS1FVJ2R2T	2.2 1/2W	[M]
R560	ERDS2TJ472T	4.7K 1/4W	[M]
R561	ERDS2TJ151T	150 1/4W	[M]
R562	ERDS2TJ220T	22 1/4W	[M]
R563	ERDS2TJ220T	22 1/4W	[M]
R564	ERDS2TJ332T	3.3K 1/4W	[M]
R565	ERDS2TJ472T	4.7K 1/4W	[M]
R566	ERDS2TJ473T	47K 1/4W	[M]
R567	ERDS2TJ683T	68K 1/4W	[M]
R568	ERDS2TJ224T	220K 1/4W	[M]
R569	ERDS2TJ472T	4.7K 1/4W	[M]
R570	ERDS2TJ103T	10K 1/4W	[M]
R571	ERDS2TJ393T	39K 1/4W	[M]
R572	ERDS2TJ223T	22K 1/4W	[M]
R573	ERDS2TJ474T	470K 1/4W	[M]
R574	ERDS2TJ224T	220K 1/4W	[M]
R575	ERDS2TJ563T	56K 1/4W	[M]
R576	ERDS2TJ824T	820K 1/4W	[M]
R577	ERDS2TJ103T	10K 1/4W	[M]
R578	ERDS2TJ824T	820K 1/4W	[M]
R579	ERDS2TJ562T	5.6K 1/4W	[M]
R580	ERDS2TJ472T	4.7K 1/4W	[M]
R581	ERDS2TJ103T	10K 1/4W	[M]
R582	ERDS1FVJ180T	18 1/2W	[M]
R583	ERDS2TJ224T	220K 1/4W	[M]
R584	ERDS2TJ101T	100 1/4W	[M]
R585	ERDS2TJ563T	56K 1/4W	[M]
R586	ERDS2TJ103T	10K 1/4W	[M]
R589	ERDS2TJ103T	10K 1/4W	[M]
R590	ERDS2TJ223T	22K 1/4W	[M]
R593	ERDS2TJ103T	10K 1/4W	[M]
R594	ERDS2TJ103T	10K 1/4W	[M]
R596	ERDS2TJ151T	150 1/4W	[M]
R597	ERDS2TJ102T	1K 1/4W	[M]
R599	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R601	ERJ3GEYJ104V	100K 1/16W	[M]
R602	ERJ3GEYJ101V	100 1/16W	[M]
R603	ERJ3GEYJ101V	100 1/16W	[M]
R604	ERJ3GEYJ104V	100K 1/16W	[M]
R605	ERJ3GEYJ103V	10K 1/16W	[M]
R606	ERJ3GEYJ103V	10K 1/16W	[M]
R607	ERJ3GEYJ224V	220K 1/16W	[M]
R608	ERJ3GEYJ102V	1K 1/16W	[M]
R609	ERJ3GEYJ101V	100 1/16W	[M]
R610	ERJ3GEYJ101V	100 1/16W	[M]
R611	ERJ3GEYJ101V	100 1/16W	[M]
R612	ERJ3GEYJ101V	100 1/16W	[M]
R613	ERJ3GEYJ101V	100 1/16W	[M]
R614	ERJ3GEYJ101V	100 1/16W	[M]
R615	ERJ3GEYJ101V	100 1/16W	[M]
R616	ERJ3GEYJ101V	100 1/16W	[M]
R617	ERJ3GEYJ101V	100 1/16W	[M]
R618	ERJ3GEYJ101V	100 1/16W	[M]
R620	ERJ3GEYJ101V	100 1/16W	[M]
R621	ERJ3GEYJ101V	100 1/16W	[M]
R622	ERJ3GEYJ101V	100 1/16W	[M]
R623	ERJ3GEYJ222V	2.2K 1/16W	[M]
R624	ERJ3GEYJ223V	22K 1/16W	[M]
R625	ERJ3GEYJ103V	10K 1/16W	[M]
R626	ERJ3GEYJ103V	10K 1/16W	[M]
R627	ERJ3GEYJ472V	4.7K 1/16W	[M]
R628	ERJ3GEYJ102V	1K 1/16W	[M]
R629	ERJ3GEYJ221V	220 1/16W	[M]
R630	ERJ3GEYJ101V	100 1/16W	[M]
R631	ERJ3GEYJ101V	100 1/16W	[M]
R632	ERJ3GEYJ223V	22K 1/16W	[M]
R633	ERJ3GEYJ102V	1K 1/16W	[M]
R636	ERJ3GEYJ331V	330 1/16W	[M]
R637	ERJ3GEYJ473V	47K 1/16W	[M]
R638	ERJ3GEYJ223V	22K 1/16W	[M]
R639	ERJ3GEYJ473V	47K 1/16W	[M]
R640	ERJ3GEYJ101V	100 1/16W	[M]
R641	ERJ3GEYJ101V	100 1/16W	[M]
R642	ERJ3GEYJ101V	100 1/16W	[M]
R643	ERJ3GEYJ101V	100 1/16W	[M]
R644	ERJ3GEYJ101V	100 1/16W	[M]
R645	ERJ3GEYJ101V	100 1/16W	[M]
R646	ERJ3GEYJ101V	100 1/16W	[M]
R647	ERJ3GEYJ101V	100 1/16W	[M]
R648	ERJ3GEYJ561V	560 1/16W	[M]
R650	ERJ3GEYJ223V	22K 1/16W	[M]
R651	ERJ3GEYJ681V	680 1/16W	[M]
R652	ERJ3GEYJ473V	47K 1/16W	[M]
R653	ERJ3GEYJ473V	47K 1/16W	[M]
R654	ERJ3GEYJ104V	100K 1/16W	[M]
R657	ERJ3GEYJ680V	68 1/16W	[M]
R658	ERJ3GEYJ680V	68 1/16W	[M]
R661	ERJ3GEYJ101V	100 1/16W	[M]
R663	ERJ3GEYJ331V	330 1/16W	[M]
R664	ERJ3GEYJ102V	1K 1/16W	[M]
R665	ERJ3GEYJ681V	680 1/16W	[M]
R666	ERJ3GEYJ681V	680 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R667	ERJ3GEYJ681V	680 1/16W	[M]
R668	ERJ3GEYJ681V	680 1/16W	[M]
R669	ERJ3GEYJ681V	680 1/16W	[M]
R670	ERJ3GEYJ102V	1K 1/16W	[M]
R671	ERJ3GEYJ104V	100K 1/16W	[M]
R672	ERJ3GEYJ104V	100K 1/16W	[M]
R673	ERJ3GEYJ104V	100K 1/16W	[M]
R674	ERJ3GEYJ104V	100K 1/16W	[M]
R675	ERJ3GEYJ104V	100K 1/16W	[M]
R676	ERJ3GEYJ104V	100K 1/16W	[M]
R677	ERJ3GEYJ104V	100K 1/16W	[M]
R678	ERJ3GEYJ104V	100K 1/16W	[M]
R679	ERJ3GEYJ102V	1K 1/16W	[M]
R680	ERJ3GEYJ102V	1K 1/16W	[M]
R681	ERJ3GEYJ122V	1.2K 1/16W	[M]
R682	ERJ3GEYJ182V	1.8K 1/16W	[M]
R683	ERJ3GEYJ222V	2.2K 1/16W	[M]
R684	ERJ3GEYJ102V	1K 1/16W	[M]
R685	ERJ3GEYJ102V	1K 1/16W	[M]
R686	ERJ3GEYJ122V	1.2K 1/16W	[M]
R687	ERJ3GEYJ182V	1.8K 1/16W	[M]
R688	ERJ3GEYJ222V	2.2K 1/16W	[M]
R689	ERJ3GEYJ272V	2.7K 1/16W	[M]
R690	ERJ3GEYJ472V	4.7K 1/16W	[M]
R691	ERJ3GEYJ472V	4.7K 1/16W	[M]
R693	ERJ3GEYJ472V	4.7K 1/16W	[M]
R703	ERJ3GEYJ472V	4.7K 1/16W	[M]
R704	ERJ3GEYJ331V	330 1/16W	[M]
R705	ERJ3GEYJ104V	100K 1/16W	[M]
R707	ERJ3GEYJ821V	820 1/16W	[M]
R708	ERJ3GEYJ223V	22K 1/16W	[M]
R709	ERJ3GEYJ561V	560 1/16W	[M]
R710	ERJ3GEYJ561V	560 1/16W	[M]
R711	ERJ3GEYJ1R0V	1 1/16W	[M]
R712	ERJ3GEYJ1R0V	1 1/16W	[M]
R713	ERJ3GEYJ1R0V	1 1/16W	[M]
R714	ERJ3GEYJ1R0V	1 1/16W	[M]
R715	ERJ3GEYJ1R0V	1 1/16W	[M]
R716	ERJ3GEYJ1R0V	1 1/16W	[M]
R717	ERJ3GEYJ223V	22K 1/16W	[M]
R718	ERJ3GEYJ102V	1K 1/16W	[M]
R719	ERJ3GEYJ822V	8.2K 1/16W	[M]
R720	ERJ3GEYJ222V	2.2K 1/16W	[M]
R722	ERJ3GEYJ561V	560 1/16W	[M]
R723	ERJ3GEYJ182V	1.8K 1/16W	[M]
R724	ERJ3GEYJ183V	18K 1/16W	[M]
R725	ERJ3GEYJ222V	2.2K 1/16W	[M]
R726	ERJ3GEYJ151V	150 1/16W	[M]
R727	ERJ3GEYJ334V	330K 1/16W	[M]
R728	ERJ3GEYJ472V	4.7K 1/16W	[M]
R729	ERJ3GEYJ681V	680 1/16W	[M]
R730	ERJ3GEYJ154V	150K 1/16W	[M]
R731	ERJ3GEYJ472V	4.7K 1/16W	[M]
R732	ERJ3GEYJ681V	680 1/16W	[M]
R840	ERJ3GEYJ102V	1K 1/16W	[M]
R841	ERJ3GEYJ104V	100K 1/16W	[M]
R842	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R843	ERJ3GEYJ154V	150K 1/16W	[M]
R844	ERJ3GEYJ154V	150K 1/16W	[M]
R845	ERJ3GEYJ154V	150K 1/16W	[M]
R846	ERJ3GEYJ154V	150K 1/16W	[M]
R847	ERJ3GEYJ472V	4.7K 1/16W	[M]
R848	ERJ3GEYJ221V	220 1/16W	[M]
R849	ERJ3GEYJ105V	1M 1/16W	[M]
R850	ERJ3GEYJ271V	270 1/16W	[M]
R851	ERJ3GEYJ271V	270 1/16W	[M]
R852	ERJ3GEYJ561V	560 1/16W	[M]
R853	ERJ3GEYJ561V	560 1/16W	[M]
R854	ERJ3GEYJ184V	180K 1/16W	[M]
R855	ERJ3GEYJ184V	180K 1/16W	[M]
R856	ERJ3GEYJ333V	33K 1/16W	[M]
R857	ERJ3GEYJ472V	4.7K 1/16W	[M]
R858	ERJ3GEYJ333V	33K 1/16W	[M]
R859	ERJ3GEYJ102V	1K 1/16W	[M]
R860	ERJ3GEYJ153V	15K 1/16W	[M]
R861	ERJ3GEYJ222V	2.2K 1/16W	[M]
R862	ERJ3GEYJ222V	2.2K 1/16W	[M]
R863	ERJ3GEYJ472V	4.7K 1/16W	[M]
R864	ERJ3GEYJ563V	56K 1/16W	[M]
R865	ERJ3GEYJ154V	150K 1/16W	[M]
R866	ERJ3GEYJ221V	220 1/16W	[M]
R867	ERJ3GEYJ221V	220 1/16W	[M]
R868	ERJ3GEYJ103V	10K 1/16W	[M]
R869	ERJ3GEYJ221V	220 1/16W	[M]
R870	ERJ3GEYJ681V	680 1/16W	[M]
R871	ERJ3GEYJ331V	330 1/16W	[M]
R872	ERJ3GEYJ104V	100K 1/16W	[M]
R873	ERJ3GEYJ472V	4.7K 1/16W	[M]
R874	ERJ3GEYJ472V	4.7K 1/16W	[M]
R875	ERJ3GEYJ104V	100K 1/16W	[M]
R876	ERJ3GEYJ102V	1K 1/16W	[M]
R877	ERJ3GEYJ102V	1K 1/16W	[M]
R878	ERJ3GEYJ102V	1K 1/16W	[M]
R879	ERJ3GEYJ102V	1K 1/16W	[M]
R880	ERJ3GEYJ102V	1K 1/16W	[M]
R881	ERJ3GEYJ102V	1K 1/16W	[M]
R882	ERJ3GEYJ102V	1K 1/16W	[M]
R883	ERJ3GEYJ470V	47 1/16W	[M]
R884	ERJ3GEYJ331V	330 1/16W	[M]
R885	ERJ3GEYJ472V	4.7K 1/16W	[M]
R886	ERJ3GEYJ472V	4.7K 1/16W	[M]
R887	ERJ3GEYJ331V	330 1/16W	[M]
R888	ERJ3GEYJ1R0V	1 1/16W	[M]
R889	ERJ3GEYJ1R0V	1 1/16W	[M]
R890	ERJ3GEYJ472V	4.7K 1/16W	[M]
R891	ERJ3GEYJ124V	120K 1/16W	[M]
R892	ERJ3GEYJ122V	1.2K 1/16W	[M]
R893	ERJ3GEYJ472V	4.7K 1/16W	[M]
R894	ERJ3GEYJ472V	4.7K 1/16W	[M]
R895	ERJ3GEYJ823V	82K 1/16W	[M]
R896	ERJ3GEYJ122V	1.2K 1/16W	[M]
R897	ERJ3GEYJ331V	330 1/16W	[M]
R898	ERJ3GEYJ102V	1K 1/16W	[M]
R899	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R900	ERJ3GEYJ102V	1K 1/16W	[M]
R901	ERJ3GEYJ102V	1K 1/16W	[M]
R902	ERJ3GEYJ104V	100K 1/16W	[M]
R903	ERJ3GEYJ472V	4.7K 1/16W	[M]
R904	ERJ3GEYJ331V	330 1/16W	[M]
R905	ERJ3GEYJ331V	330 1/16W	[M]
R906	ERJ3GEYJ331V	330 1/16W	[M]
R907	ERJ3GEYJ563V	56K 1/16W	[M]
R908	ERJ3GEYJ273V	27K 1/16W	[M]
R909	ERJ3GEYJ273V	27K 1/16W	[M]
R910	ERJ3GEYJ221V	220 1/16W	[M]
R911	ERJ3GEYJ221V	220 1/16W	[M]
R912	ERJ3GEYJ102V	1K 1/16W	[M]
R913	ERJ3GEYJ102V	1K 1/16W	[M]
R914	ERJ3GEYJ473V	47K 1/16W	[M]
R915	ERJ3GEYJ473V	47K 1/16W	[M]
R916	ERJ3GEYJ104V	100K 1/16W	[M]
R917	ERJ3GEYJ104V	100K 1/16W	[M]
R918	ERJ3GEYJ331V	330 1/16W	[M]
R919	ERJ3GEYJ331V	330 1/16W	[M]
R920	ERJ3GEYJ472V	4.7K 1/16W	[M]
R921	ERJ3GEYJ472V	4.7K 1/16W	[M]
R922	ERJ3GEYJ102V	1K 1/16W	[M]
R923	ERJ3GEYJ122V	1.2K 1/16W	[M]
R924	ERJ3GEYJ122V	1.2K 1/16W	[M]
R925	ERJ3GEYJ123V	12K 1/16W	[M]
R926	ERJ3GEYJ123V	12K 1/16W	[M]
R927	ERJ3GEYJ392V	3.9K 1/16W	[M]
R928	ERJ3GEYJ392V	3.9K 1/16W	[M]
R929	ERJ3GEYJ682V	6.8K 1/16W	[M]
R930	ERJ3GEYJ682V	6.8K 1/16W	[M]
R931	ERJ3GEYJ392V	3.9K 1/16W	[M]
R932	ERJ3GEYJ392V	3.9K 1/16W	[M]
R933	ERJ3GEYJ682V	6.8K 1/16W	[M]
R934	ERJ3GEYJ682V	6.8K 1/16W	[M]
R935	ERJ3GEYJ103V	10K 1/16W	[M]
R936	ERJ3GEYJ474V	470K 1/16W	[M]
R955	ERJ3GEYJ223V	22K 1/16W	[M]
R956	ERJ3GEYJ223V	22K 1/16W	[M]
R2001	ERJ3GEYJ102V	1K 1/16W	[M]
R2011	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2012	ERJ3GEYJ123V	12K 1/16W	[M]
R2013	ERJ3RBD123V	12K 3W	[M] ⚠
R2014	ERJ3GEYJ473V	47K 1/16W	[M]
R2028	ERJ3GEYJ103V	10K 1/16W	[M]
R2029	ERJ3GEYJ153V	15K 1/16W	[M]
R2030	ERJ3GEYJ153V	15K 1/16W	[M]
R2031	ERJ3GEYJ153V	15K 1/16W	[M]
R2032	ERJ3GEYJ153V	15K 1/16W	[M]
R2033	ERJ3GEYJ153V	15K 1/16W	[M]
R2034	ERJ3GEYJ183V	18K 1/16W	[M]
R2035	ERJ3GEYJ183V	18K 1/16W	[M]
R2036	ERJ3GEYJ123V	12K 1/16W	[M]
R2037	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2038	ERJ3GEYJ105V	1M 1/16W	[M]
R2039	ERJ3GEYF153V	15K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2040	ERJ3GEYJ473V	47K 1/16W	[M]
R2041	ERJ3GEYF123V	12K 1/16W	[M]
R2042	ERJ3GEYJ223V	22K 1/16W	[M]
R2043	ERJ3GEY0R00V	0 1/16W	[M]
R2044	ERJ3GEYJ563V	56K 1/16W	[M]
R2045	ERJ3GEY0R00V	0 1/16W	[M]
R2046	ERJ3GEYJ153V	15K 1/16W	[M]
R2502	ERJ3GEYJ153V	15K 1/16W	[M]
R2503	ERJ3GEYJ153V	15K 1/16W	[M]
R2504	ERJ3GEYJ823V	82K 1/16W	[M]
R2505	ERJ3GEYJ823V	82K 1/16W	[M]
R2507	ERJ6GEYJ6R8V	6.8 1/10W	[M]
R3001	ERJ3GEYJ220V	22 1/16W	[M]
R3002	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3003	ERJ3GEYJ101V	100 1/16W	[M]
R3004	ERJ3GEYJ221V	220 1/16W	[M]
R3005	ERJ3GEYJ473V	47K 1/16W	[M]
R3007	ERJ3GEY0R00V	0 1/16W	[M]
R3071	ERJ3GEYJ103V	10K 1/16W	[M]
R3080	ERJ3RBD752V	7.5K 3W	[M] ⚠
R3082	ERJ3RBD202V	2K 3W	[M] ⚠
R3083	ERJ3RBD132V	1.3K 3W	[M] ⚠
R3084	ERJ3RBD752V	7.5K 3W	[M] ⚠
R3085	ERJ3RBD183V	18K 3W	[M] ⚠
R3086	ERJ3RBD432V	4.3K 3W	[M] ⚠
R3087	ERJ3RBD752V	7.5K 3W	[M] ⚠
R3088	ERJ3RBD752V	7.5K 3W	[M] ⚠
R3089	ERJ3RBD332V	3.3K 3W	[M] ⚠
R3090	ERJ3RBD222V	2.2K 3W	[M] ⚠
R3101	ERJ3RED750V	75 3W	[M] ⚠
R3105	ERJ3RED750V	75 3W	[M] ⚠
R3111	ERJ3RED750V	75 3W	[M] ⚠
R3115	ERJ3RED750V	75 3W	[M]
R3301	ERJ3GEYJ682V	6.8K 1/16W	[M]
R3302	ERJ3GEYJ332V	3.3K 1/16W	[M]
R3304	ERJ3RBD750V	75 3W	[M]
R3305	ERJ3RBD750V	75 3W	[M]
R3306	ERJ3RBD750V	75 3W	[M]
R3307	ERJ3GEYJ562V	5.6K 1/16W	[M]
R4201	ERJ3GEY0R00V	0 1/16W	[M]
R4211	ERJ3GEY0R00V	0 1/16W	[M]
R5203	ERJ3GEYJ563V	56K 1/16W	[M]
R5204	ERJ3GEYJ223V	22K 1/16W	[M]
R5211	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5212	ERJ12YJ270H	27 1/2W	[M]
R5213	ERJ3GEYJ473V	47K 1/16W	[M]
R5214	ERJ3GEYJ223V	22K 1/16W	[M]
R5215	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5216	ERJ12YJ270H	27 1/2W	[M]
R5217	ERJ3GEYJ473V	47K 1/16W	[M]
R5221	ERJ3GEYJ822V	8.2K 1/16W	[M]
R5222	ERJ3GEYJ822V	8.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5232	ERJ3RBD123V	12K 3W	[M]
R5235	ERJ3GEYJ105V	1M 1/16W	[M]
R5236	ERJ3GEY0R00V	0 1/16W	[M]
R5252	ERJ3GEYJ102V	1K 1/16W	[M]
R6201	ERJ3GEYJ103V	10K 1/16W	[M]
R6202	ERJ3GEYJ103V	10K 1/16W	[M]
R6204	ERJ3GEYJ103V	10K 1/16W	[M]
R6205	ERJ3GEYJ102V	1K 1/16W	[M]
R6301	ERJ3GEYJ103V	10K 1/16W	[M]
R6302	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6303	ERJ3GEYJ102V	1K 1/16W	[M]
R6512	ERJ3RBD331V	330 3W	[M] ⚠
R6513	ERJ3GEYJ103V	10K 1/16W	[M]
R6514	ERJ3GEYJ470V	47 1/16W	[M]
R6515	ERJ3GEYJ100V	10 1/16W	[M]
R7001	ERJ3GEYJ102V	1K 1/16W	[M]
R7002	ERJ3GEYJ473V	47K 1/16W	[M]
K2001	ERJ3GEY0R00V	0 1/16W	[M]
K3001	ERJ3GEY0R00V	0 1/16W	[M]
K3101	ERJ3GEY0R00V	0 1/16W	[M]
K3105	ERJ3GEY0R00V	0 1/16W	[M]
K3111	ERJ3GEY0R00V	0 1/16W	[M]
K3112	ERJ3GEY0R00V	0 1/16W	[M]
K3115	ERJ3GEY0R00V	0 1/16W	[M]
K3116	ERJ3GEY0R00V	0 1/16W	[M]
K3201	ERJ3GEY0R00V	0 1/16W	[M]
K3202	ERJ3GEY0R00V	0 1/16W	[M]
K4211	ERJ3GEY0R00V	0 1/16W	[M]
K6251	ERJ14Y0R00H	0 1/4W	[M]
RA2031	EXBV4V273JV	CHIP RESISTOR	[M]
RA2032	EXBV4V472JV	CHIP RESISTOR	[M]
RA2501	EXBV8V473JV	CHIP RESISTOR	[M]
RA3008	EXBV4V103JV	CHIP RESISTOR	[M]
RA3009	EXBV4V221JV	CHIP RESISTOR	[M]
RA3010	EXBV4V221JV	CHIP RESISTOR	[M]
RA3011	EXBV4V473JV	CHIP RESISTOR	[M]
RA5231	EXBV8V101JV	CHIP RESISTOR	[M]
RA6201	EXBV4V103JV	CHIP RESISTOR	[M]
RA6202	EXBV4V103JV	CHIP RESISTOR	[M]
RA6203	EXBV4V103JV	CHIP RESISTOR	[M]
RA6204	EXBV4V103JV	CHIP RESISTOR	[M]
RA6205	EXBV8V473JV	CHIP RESISTOR	[M]
RA6206	EXBV4V473JV	CHIP RESISTOR	[M]
RA6207	EXBV4V472JV	CHIP RESISTOR	[M]
RA7001	EXBV8V473JV	CHIP RESISTOR	[M]
RA7002	EXBV8V473JV	CHIP RESISTOR	[M]
RA7003	EXBV8V473JV	CHIP RESISTOR	[M]
		CAPACITORS	
C1	ECEA1CKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C111	ECEA0JM102B	1000 6.3V	[M]
C112	ECEA0JM102B	1000 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C125	ECUV1H101KCN	100P 50V	[M]
C126	ECUV1H101KCN	100P 50V	[M]
C127	ERJ3GEY0R00V	0 1/16W	[M]
C128	ECUV1H101KCN	100P 50V	[M]
C129	ECUV1H101KCN	100P 50V	[M]
C130	ERJ3GEY0R00V	0 1/16W	[M]
C131	ECUV1H101KCN	100P 50V	[M]
C132	ECUV1H101KCN	100P 50V	[M]
C133	ECUV1H103KBN	0.01 50V	[M]
C134	ECUV1H101KCN	100P 50V	[M]
C135	ECUV1H101KCN	100P 50V	[M]
C136	ECUV1H103KBN	0.01 50V	[M]
C137	ECEA1HKA2R2B	2.2 50V	[M]
C140	ECEA1HKA010B	1 50V	[M]
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA3R3B	3.3 50V	[M]
C143	ECEA1HKA010B	1 50V	[M]
C144	ECUV1H470JCN	47P 50V	[M]
C145	ECUV1H101KCN	100P 50V	[M]
C146	ECUV1H103KBN	0.01 50V	[M]
C147	ECUV1H101KCN	100P 50V	[M]
C148	ECUV1H470JCN	47P 50V	[M]
C149	ECEA1HKA010B	1 50V	[M]
C150	ECUV1H470JCN	47P 50V	[M]
C151	ECUV1H681KBN	680P 50V	[M]
C152	ECUV1H103KBN	0.01 50V	[M]
C153	ECUV1H681KBN	680P 50V	[M]
C154	ECUV1H470JCN	47P 50V	[M]
C155	ECEA1CKA100B	10 16V	[M]
C156	ECEA1CKA100B	10 16V	[M]
C158	ECEA1CKA100B	10 16V	[M]
C159	ECEA1CKA100B	10 16V	[M]
C160	ECUV1H103KBN	0.01 50V	[M]
C161	ECUV1H101KCN	100P 50V	[M]
C162	ECUV1H470JCN	47P 50V	[M]
C163	ECEA1CKA100B	10 16V	[M]
C164	ECUV1H101KCN	100P 50V	[M]
C165	ECUV1H470JCN	47P 50V	[M]
C166	ECUV1H103KBN	0.01 50V	[M]
C181	ECEA1HKA010B	1 50V	[M]
C182	ECEA1HKA010B	1 50V	[M]
C215	ECEA1HKA010B	1 50V	[M]
C216	ECEA1CKA100B	10 16V	[M]
C217	ECEA1HKAR15B	0.15 50V	[M]
C218	ECEA1CKA100B	10 16V	[M]
C219	ECEA1HKA3R3B	3.3 50V	[M]
C220	ECEA1HKA010B	1 50V	[M]
C221	ECEA1CKA100B	10 16V	[M]
C222	ECEA1HKAR15B	0.15 50V	[M]
C223	ECEA1CKA100B	10 16V	[M]
C224	ECEA1HKA3R3B	3.3 50V	[M]
C225	ECEA1HKA010B	1 50V	[M]
C226	ECEA1CKA100B	10 16V	[M]
C227	ECEA1CKA100B	10 16V	[M]
C228	ECEA1HKA010B	1 50V	[M]
C229	ECEA1HKA010B	1 50V	[M]
C230	ECEA1CKA100B	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C231	ECEA1CKA100B	10 16V	[M]
C232	ECEA1HKA2R2B	2.2 50V	[M]
C233	ECUVNE104KBN	0.1 25V	[M]
C235	ECUV1H101KCN	100P 50V	[M]
C237	ECUV1H101KCN	100P 50V	[M]
C238	ECUV1H221KBN	220P 50V	[M]
C239	ECUV1H221KBN	220P 50V	[M]
C240	ECUV1H470JCN	47P 50V	[M]
C241	ECUV1H470JCN	47P 50V	[M]
C242	ECUVNE104KBN	0.1 25V	[M]
C243	ECUV1H103KBN	0.01 50V	[M]
C251	ECEA1CKA100B	10 16V	[M]
C252	ECUVNE104KBN	0.1 25V	[M]
C253	ECUVNE104KBN	0.1 25V	[M]
C265	ECEA1CKA100B	10 16V	[M]
C266	ECEA1CKA100B	10 16V	[M]
C267	ECUV1H471KBN	470P 50V	[M]
C268	ECUV1H471KBN	470P 50V	[M]
C269	ECUV1H470JCN	47P 50V	[M]
C270	ECUV1H470JCN	47P 50V	[M]
C271	ECUV1H103KBN	0.01 50V	[M]
C272	ECUV1H103KBN	0.01 50V	[M]
C273	ECEA1CKA220B	22 16V	[M]
C274	ECEA1CKA220B	22 16V	[M]
C275	ECEA1CKA100B	10 16V	[M]
C276	ECEA1CKA100B	10 16V	[M]
C277	ECUV1H471KBN	470P 50V	[M]
C278	ECUV1H471KBN	470P 50V	[M]
C279	ECUV1H470JCN	47P 50V	[M]
C280	ECUV1H470JCN	47P 50V	[M]
C281	ECEA1CKA220B	22 16V	[M]
C282	ECEA1CKA220B	22 16V	[M]
C283	ECEA1CKA100B	10 16V	[M]
C284	ECEA1CKA100B	10 16V	[M]
C285	ECUV1H470JCN	47P 50V	[M]
C286	ECUV1H470JCN	47P 50V	[M]
C287	ECUV1H471KBN	470P 50V	[M]
C288	ECUV1H471KBN	470P 50V	[M]
C289	ECUVNE104KBN	0.1 25V	[M]
C290	ECUVNE104KBN	0.1 25V	[M]
C291	ECEA1CKA220B	22 16V	[M]
C292	ECEA1CKA220B	22 16V	[M]
C293	ECEA1CKA220B	22 16V	[M]
C294	ECEA1CKA220B	22 16V	[M]
C295	ECUV1H222KBN	2200P 50V	[M]
C296	ECUV1H222KBN	2200P 50V	[M]
C297	ECEA1CKA220B	22 16V	[M]
C298	ECEA1CKA220B	22 16V	[M]
C299	ECUV1H222KBN	2200P 50V	[M]
C300	ECUV1H222KBN	2200P 50V	[M]
C301	ECEA1CKA220B	22 16V	[M]
C302	ECEA1CKA220B	22 16V	[M]
C303	ECUV1H222KBN	2200P 50V	[M]
C304	ECUV1H222KBN	2200P 50V	[M]
C309	ECEA1HKA3R3B	3.3 50V	[M]
C401	ECEA1CKA100B	10 16V	[M]
C402	ECEA1HKA3R3B	3.3 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C403	ECEA1HKA4R7B	4.7 50V	[M]
C404	ECEA1HKA4R7B	4.7 50V	[M]
C405	ECEA1HKA3R3B	3.3 50V	[M]
C406	ECEA1CKA100B	10 16V	[M]
C407	ECBT1H103KB5	0.01 50V	[M]
C408	ECBT1H103KB5	0.01 50V	[M]
C409	ECBT1H101KB5	100P 50V	[M]
C410	ECBT1H101KB5	100P 50V	[M]
C411	ECBT1H470J5	47P 50V	[M]
C412	ECBT1H470J5	47P 50V	[M]
C413	ECBT1H102KB5	1000P 50V	[M]
C414	ECBT1H102KB5	1000P 50V	[M]
C415	ECBT1H103KB5	0.01 50V	[M]
C416	ECEA1CKA100B	10 16V	[M]
C417	ECEA1HKA3R3B	3.3 50V	[M]
C418	ECFR1C104KR	0.1 16V	[M]
C419	ECFR1C393KR	0.039 16V	[M]
C420	ECBT1C562KR5	5600P 16V	[M]
C421	ECBT1H473KB5	0.047 50V	[M]
C422	ECQV1H154JZ3	0.15 50V	[M]
C423	ECEA1HKA010B	1 50V	[M]
C424	ECBT1H473KB5	0.047 50V	[M]
C425	ECFR1C104KR	0.1 16V	[M]
C426	ECFR1C104KR	0.1 16V	[M]
C427	ECBT1H473KB5	0.047 50V	[M]
C428	ECEA1CKA100B	10 16V	[M]
C429	ECEA1HKA010B	1 50V	[M]
C430	ECEA1CKA100B	10 16V	[M]
C431	ECBT1H103KB5	0.01 50V	[M]
C432	ECEA1CKA100B	10 16V	[M]
C433	ECEA1AKA101B	100 10V	[M]
C434	ECEA1HKA4R7B	4.7 50V	[M]
C452	ECUV1E223KBN	0.022 25V	[M]
C453	ECUV1H103KBN	0.01 50V	[M]
C454	ECEA0JKA470B	47 6.3V	[M]
C455	ECUV1H103KBN	0.01 50V	[M]
C456	ECUV1H103KBN	0.01 50V	[M]
C500	ECKWRS102MBC	1000P 400V	[M]
C501	ECBT1H471KB5	470P 50V	[M]
C502	ECBT1H471KB5	470P 50V	[M]
C503	ECBT1H471KB5	470P 50V	[M]
C504	ECBT1H471KB5	470P 50V	[M]
C505	ECBT1H471KB5	470P 50V	[M]
C506	ECBT1H471KB5	470P 50V	[M]
C507	ECBT1H180JC5	18P 50V	[M]
C508	ECBT1H180JC5	18P 50V	[M]
C509	ECBT1H220JC5	22P 50V	[M]
C510	ECBT1H220JC5	22P 50V	[M]
C511	ECBT1H220JC5	22P 50V	[M]
C512	ECBT1H220JC5	22P 50V	[M]
C513	ECBT1H473KB5	0.047 50V	[M]
C514	ECEA1VM221B	220P 35V	[M]
C515	ECKR2H103ZF5	0.01 500V	[M]
C516	ECKR2H103ZF5	0.01 500V	[M]
C517	ECBT1C103NS5	0.01 16V	[M]
C518	ECBT1H104KB5	0.1 50V	[M]
C519	ECEA1HKA2R2B	2.2 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C520	ECA0JM471B	470 6.3V	[M]
C521	ECBT1H473KB5	0.047 50V	[M]
C522	ECBT1H473KB5	0.047 50V	[M]
C523	ECBT1H473KB5	0.047 50V	[M]
C524	ECBT1H473KB5	0.047 50V	[M]
C525	ECBT1H473KB5	0.047 50V	[M]
C526	ECBT1H473KB5	0.047 50V	[M]
C527	RCEA1V332B-S	3300P 35V	[M]
C528	RCE1VFW562BJ	5600P 35V	[M]
C529	RCE1VFW562BJ	5600P 35V	[M]
C530	RCEA1V332B-S	3300P 35V	[M]
C531	ECQE1104KF3	0.1 100V	[M]
C532	ECQE1104KF3	0.1 100V	[M]
C534	ECBT1H102KB5	1000P 50V	[M]
C535	ECEA1HM470B	47 50V	[M]
C536	ECBT1H103KB5	0.01 50V	[M]
C537	ECA1EM101B	100 25V	[M]
C538	ECBT1H103KB5	0.01 50V	[M]
C539	ECEA1CKA470B	47 16V	[M]
C541	ECEA1HKA4R7B	4.7 50V	[M]
C542	ECA1EM331B	330 25V	[M]
C543	ECA1EM331B	330 25V	[M]
C544	ECEA1HM101B	100 50V	[M]
C545	ECEA1HM101B	100 50V	[M]
C546	ECEA1JM101B	100 63V	[M]
C547	ECEA1JM101B	100 63V	[M]
C548	ECBT1H102KB5	1000P 50V	[M]
C549	ECA1HM100B	10 50V	[M]
C551	ECEA1HKA4R7B	4.7 50V	[M]
C552	ECBT1H104KB5	0.1 50V	[M]
C553	ECEA1VM221B	220P 35V	[M]
C554	ECEA1CKA330B	33 16V	[M]
C555	ECEA1AKA221Q	220 10V	[M]
C559	ECKR1H473ZF5	0.047 50V	[M]
C560	ECQE1104KF3	0.1 100V	[M]
C561	ECA1EM222B	2200 25V	[M]
C592	ECBT1H103KB5	0.01 50V	[M]
C593	RCEA1C102B-S	1000P 16V	[M]
C594	RCEA1C102B-S	1000P 16V	[M]
C595	ECEA1VKA4R7B	4.7 35V	[M]
C596	ECBT1H103KB5	0.01 50V	[M]
C597	ECEA1AKA470B	47 10V	[M]
C602	ECUV1H561KBN	560P 50V	[M]
C603	ECUV1H561KBN	560P 50V	[M]
C604	ECEA1CKA100B	10 16V	[M]
C605	ECUV1H102KBN	1000P 50V	[M]
C609	ECUV1H103KBN	0.01 50V	[M]
C610	ECUV1H103KBN	0.01 50V	[M]
C611	ECUV1H103KBN	0.01 50V	[M]
C612	ECEA1HKA2R2B	2.2 50V	[M]
C619	ECUV1H102KBN	1000P 50V	[M]
C620	ECUV1H103KBN	0.01 50V	[M]
C621	ECEA1HKA3R3B	3.3 50V	[M]
C622	ECEA1VKA220B	22 35V	[M]
C623	ECEA1VKA220B	22 35V	[M]
C624	ECEA0JKS101B	100 6.3V	[M]
C625	ECUV1H104ZFN	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C626	ECEA0JM102B	1000 6.3V	[M]
C627	ECUV1H102KBN	1000P 50V	[M]
C628	ECUV1H331KBN	330P 50V	[M]
C629	ECUV1H103KBN	0.01 50V	[M]
C630	ECEA1AKA220B	22 10V	[M]
C672	ECUV1H101KCN	100P 50V	[M]
C701	ECQE1104KF3	0.1 100V	[M]
C702	ECEA1EM472B	4700 25V	[M]
C703	ECEA1CKA100B	10 16V	[M]
C704	ECUV1H103KBN	0.01 50V	[M]
C705	ECUV1H103KBN	0.01 50V	[M]
C706	EEUFC0J821B	820 6.3V	[M]
C707	ECEA1AKA101B	100 10V	[M]
C708	ECEA0JKA221B	220 6.3V	[M]
C709	ECA1EM101B	100 25V	[M]
C710	ECEA1AKA101B	100 10V	[M]
C711	ECEA1CKA100B	10 16V	[M]
C712	ECEA1CKA100B	10 16V	[M]
C713	ECUV1H102KBN	1000P 50V	[M]
C714	ECUV1H102KBN	1000P 50V	[M]
C715	ECUV1H102KBN	1000P 50V	[M]
C716	RCEA1E222B-S	2200P 25V	[M]
C717	ECUV1H103KBN	0.01 50V	[M]
C719	ECUVNE104KBN	0.1 25V	[M]
C739	ECUVNA105KBN	10 10V	[M]
C764	ECUV1H103KBN	0.01 50V	[M]
C838	ECUV1H050DCN	5P 50V	[M]
C839	ECUV1H120JCN	12P 50V	[M]
C840	ECUV1H103KBN	0.01 50V	[M]
C841	ECUV1H222KBN	2200P 50V	[M]
C842	ECUV1H222KBN	2200P 50V	[M]
C843	ECEA1HKA2R2B	2.2 50V	[M]
C844	ECEA1HKA2R2B	2.2 50V	[M]
C845	ECUV1H103KBN	0.01 50V	[M]
C846	ECEA1HKA010B	1 50V	[M]
C847	ECUV1H103KBN	0.01 50V	[M]
C848	ECUV1H222KBN	2200P 50V	[M]
C849	ECUV1H681KBN	680P 50V	[M]
C850	ECUV1H681KBN	680P 50V	[M]
C851	ECUV1H102KBN	1000P 50V	[M]
C852	ECUV1H102KBN	1000P 50V	[M]
C853	ECUV1H470JCN	47P 50V	[M]
C854	ECUV1H470JCN	47P 50V	[M]
C855	ECUV1H103KBN	0.01 50V	[M]
C856	ECUV1H103KBN	0.01 50V	[M]
C857	ECUV1H470JCN	47P 50V	[M]
C858	ECUV1H222KBN	2200P 50V	[M]
C859	ECEA1HKA010B	1 50V	[M]
C860	ECUV1H331KBN	330P 50V	[M]
C861	ECUV1H103KBN	0.01 50V	[M]
C862	ECUV1H103KBN	0.01 50V	[M]
C863	ECEA1CKA100B	10 16V	[M]
C864	ECUV1H103KBN	0.01 50V	[M]
C865	ECUV1H103KBN	0.01 50V	[M]
C866	ECEA1CKA100B	10 16V	[M]
C867	ECUV1H151KCN	150P 50V	[M]
C868	ECUV1H151KCN	150P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C869	ECUV1H470JCN	47P 50V	[M]
C870	ECUV1H470JCN	47P 50V	[M]
C871	ECUV1H103KBN	0.01 50V	[M]
C872	ECUV1H103KBN	0.01 50V	[M]
C873	ECUV1H103KBN	0.01 50V	[M]
C874	ECUV1E223KBN	0.022 25V	[M]
C875	ECUV1H103KBN	0.01 50V	[M]
C876	ECEA0JKA470B	47 6.3V	[M]
C877	ECUV1H103KBN	0.01 50V	[M]
C879	ECUV1H103KBN	0.01 50V	[M]
C880	ECUV1H103KBN	0.01 50V	[M]
C881	ECUV1H103KBN	0.01 50V	[M]
C883	ECEA1HKA010B	1 50V	[M]
C884	ECUV1H103KBN	0.01 50V	[M]
C885	ECUV1H223KBN	0.022 50V	[M]
C886	EEAFC0J101B	100P 6.3V	[M]
C887	ECEA1HKA010B	1 50V	[M]
C888	ECUV1H103KBN	0.01 50V	[M]
C889	ECUVNE104KBN	0.1 25V	[M]
C890	ECUV1H332KBN	3300P 50V	[M]
C891	ECUV1H332KBN	3300P 50V	[M]
C892	ECEA1HKA010B	1 50V	[M]
C893	ECEA0JKA470B	47 6.3V	[M]
C894	EEAFC0J101B	100P 6.3V	[M]
C895	ECEA1HKAR47B	0.47 50V	[M]
C896	ECEA1HKAR47B	0.47 50V	[M]
C897	ECEA1HKAR47B	0.47 50V	[M]
C898	ECEA1HKA010B	1 50V	[M]
C899	ECEA1HKA4R7B	4.7 50V	[M]
C900	ECEA1HKA4R7B	4.7 50V	[M]
C901	ECEA1CKA101B	100 16V	[M]
C902	ECEA1HKA4R7B	4.7 50V	[M]
C903	ECEA1HKA4R7B	4.7 50V	[M]
C904	ECEA1HKA4R7B	4.7 50V	[M]
C905	ECEA1HKA4R7B	4.7 50V	[M]
C906	ECEA1HKAR47B	0.47 50V	[M]
C907	ECEA1HKAR47B	0.47 50V	[M]
C908	ECEA1HKAR47B	0.47 50V	[M]
C918	ECUV1E473KBV	0.047 25V	[M]
C919	ECUV1E473KBV	0.047 25V	[M]
C921	ECUV1H102KBN	1000P 50V	[M]
C2001	EEVHB0G101R	100P 4V	[M]
C2002	EEVHB0G101R	100P 4V	[M]
C2003	EEVHB0G101R	100P 4V	[M]
C2004	ECUVNC104ZFV	0.1 16V	[M]
C2005	ECUVNC104ZFV	0.1 16V	[M]
C2006	ECUVNC104ZFV	0.1 16V	[M]
C2007	ECUVNC104ZFV	0.1 16V	[M]
C2008	ECUVNC104ZFV	0.1 16V	[M]
C2009	ECUVNC104ZFV	0.1 16V	[M]
C2010	ECUV1H221KBV	220P 50V	[M]
C2011	ECUVNC104KBV	0.1 16V	[M]
C2012	ECUV1C473KBV	0.047 16V	[M]
C2013	ECUVNC104KBV	0.1 16V	[M]
C2014	ECUVNC104ZFV	0.1 16V	[M]
C2015	ECUVNC104ZFV	0.1 16V	[M]
C2021	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2022	ECUVNC104ZFV	0.1 16V	[M]
C2023	ECUVNC104ZFV	0.1 16V	[M]
C2024	ECUVNC104ZFV	0.1 16V	[M]
C2032	ECUV1H102JCV	1000P 50V	[M]
C2033	ECUV1H102JCV	1000P 50V	[M]
C2034	ECUV1H102JCV	1000P 50V	[M]
C2035	ECUV1H331JCV	330P 50V	[M]
C2036	ECUV1H331JCV	330P 50V	[M]
C2037	ECUV1H681JCV	680P 50V	[M]
C2038	ECUV1H561JCV	560P 50V	[M]
C2039	ECUVNC104KBV	0.1 16V	[M]
C2040	ECUVNC104KBV	0.1 16V	[M]
C2041	ECUV1H682KBV	6800P 50V	[M]
C2042	ECUV1H272KBV	2700P 50V	[M]
C2043	ECUVNC104ZFV	0.1 16V	[M]
C2044	ECUVNC104ZFV	0.1 16V	[M]
C2045	ECUV1H470JCV	47P 50V	[M]
C2046	ECUV1C183KBV	0.018 16V	[M]
C2047	ECUV1C103KBV	0.01 16V	[M]
C2048	ECUV1H103KBV	0.01 50V	[M]
C2049	ECUV1C474KBN	0.47 16V	[M]
C2050	ECUVNC393KBV	0.039 16V	[M]
C2051	ECUV1H822KBV	8200P 50V	[M]
C2061	ECUVNC104KBV	0.1 16V	[M]
C2501	EEVFC0J221P	220P 6.3V	[M]
C2502	ECEV1CA101WP	100 16V	[M]
C2503	ECEV1CA220WR	22 16V	[M]
C2504	ECUVNC104ZFV	0.1 16V	[M]
C2505	ECUVNC104ZFV	0.1 16V	[M]
C2506	ECUVNC104ZFV	0.1 16V	[M]
C2507	ECUVNC104ZFV	0.1 16V	[M]
C2508	ECUVNC104ZFV	0.1 16V	[M]
C2509	EEVFC1C100R	10P 16V	[M]
C2511	ECUVNC104ZFV	0.1 16V	[M]
C2512	ECUVNC104ZFV	0.1 16V	[M]
C2513	ECUVNC104ZFV	0.1 16V	[M]
C3001	ECEV0JA331P	330 6.3V	[M]
C3002	ECEV0JA331P	330 6.3V	[M]
C3003	ECEV0JA331P	330 6.3V	[M]
C3004	ECUVNA105ZFV	10 10V	[M]
C3005	ECUVNC104ZFV	0.1 16V	[M]
C3006	ECUVNC104ZFV	0.1 16V	[M]
C3007	ECUVNA105ZFV	10 10V	[M]
C3008	ECUVNA105ZFV	10 1V0	[M]
C3009	ECUVNC104ZFV	0.1 16V	[M]
C3010	ECUVNC104ZFV	0.1 16V	[M]
C3011	ECUVNC104ZFV	0.1 16V	[M]
C3012	ECUVNA105ZFV	10 10V	[M]
C3013	ECUVNA105ZFV	10 10V	[M]
C3014	ECUVNC104ZFV	0.1 16V	[M]
C3015	ECUVNC104ZFV	0.1 16V	[M]
C3016	ECUVNA105ZFV	10 10V	[M]
C3017	ECUVNC104ZFV	0.1 16V	[M]
C3018	ECUVNC104ZFV	0.1 16V	[M]
C3019	ECUVNA105ZFV	10 10V	[M]
C3020	ECUVNA105ZFV	10 10V	[M]
C3021	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3022	ECUVNC104ZFV	0.1 16V	[M]
C3023	ECUVNC104ZFV	0.1 16V	[M]
C3024	ECUVNA105ZFV	10 10V	[M]
C3025	ECUVNC104ZFV	0.1 16V	[M]
C3026	ECUVNA105ZFV	10 10V	[M]
C3027	ECUVNC104ZFV	0.1 16V	[M]
C3028	ECUVNC104ZFV	0.1 16V	[M]
C3029	ECUVNC104ZFV	0.1 16V	[M]
C3030	ECUVNA105ZFV	10 10V	[M]
C3031	ECUVNC104ZFV	0.1 16V	[M]
C3032	ECUVNC104ZFV	0.1 16V	[M]
C3033	ECUVNC104ZFV	0.1 16V	[M]
C3034	ECUVNC104ZFV	0.1 16V	[M]
C3035	ECUVNC104ZFV	0.1 16V	[M]
C3036	ECUV1H220JCV	22P 50V	[M]
C3041	ECUVNC104ZFV	0.1 16V	[M]
C3042	ECUVNC104ZFV	0.1 16V	[M]
C3051	ECUVNC104ZFV	0.1 16V	[M]
C3052	RCST1AY106RE	10 10V	[M]
C3060	ECUVNC104KBV	0.1 16V	[M]
C3061	ECUVNC104ZFV	0.1 16V	[M]
C3062	ECUVNC104ZFV	0.1 16V	[M]
C3063	ECUVNC104ZFV	0.1 16V	[M]
C3064	ECUVNC104ZFV	0.1 16V	[M]
C3065	ECUVNA105ZFV	10 10V	[M]
C3066	ECUVNC104ZFV	0.1 16V	[M]
C3080	ECEV0JA331P	330 6.3V	[M]
C3081	ECUVNC104ZFV	0.1 16V	[M]
C3082	ECUVNC104ZFV	0.1 16V	[M]
C3083	ECUVNA105KBN	10 10V	[M]
C3084	ECUVNA105KBN	10 10V	[M]
C3085	ECUVNA105KBN	10 10V	[M]
C3086	ECUVNA105KBN	10 10V	[M]
C3087	ECUVNC104ZFV	0.1 16V	[M]
C3088	ECUVNC104ZFV	0.1 16V	[M]
C3089	ECUVNC104ZFV	0.1 16V	[M]
C3091	ECUVNC104ZFV	0.1 16V	[M]
C3092	ECUVNC104ZFV	0.1 16V	[M]
C3093	RCST1AY106RE	10 10V	[M]
C3209	ECUVNC104ZFV	0.1 16V	[M]
C3210	ECUVNC104ZFV	0.1 16V	[M]
C3301	EEVHB0J101P	100P 6.3V	[M]
C3302	ECUVNC104ZFV	0.1 16V	[M]
C3303	EEVHB1C100R	10P 16V	[M]
C3305	ECUV1C103KBV	0.01 16V	[M]
C3307	ECUV1C103KBV	0.01 16V	[M]
C3308	ECUV1H150JCV	15P 50V	[M]
C4201	ECEV0JA331P	330 6.3V	[M]
C4208	ECUVNC104ZFV	0.1 16V	[M]
C4209	ECUVNC104ZFV	0.1 16V	[M]
C4210	ECUVNC104ZFV	0.1 16V	[M]
C4213	RCST1AY106RE	10 10V	[M]
C4215	ECUVNC104ZFV	0.1 16V	[M]
C4216	EEVHB0J101P	100P 6.3V	[M]
C4217	ECUVNC104KBV	0.1 16V	[M]
C4218	ECUVNC104KBV	0.1 16V	[M]
C4222	ECEV0JA331P	330 6.3V	[M]

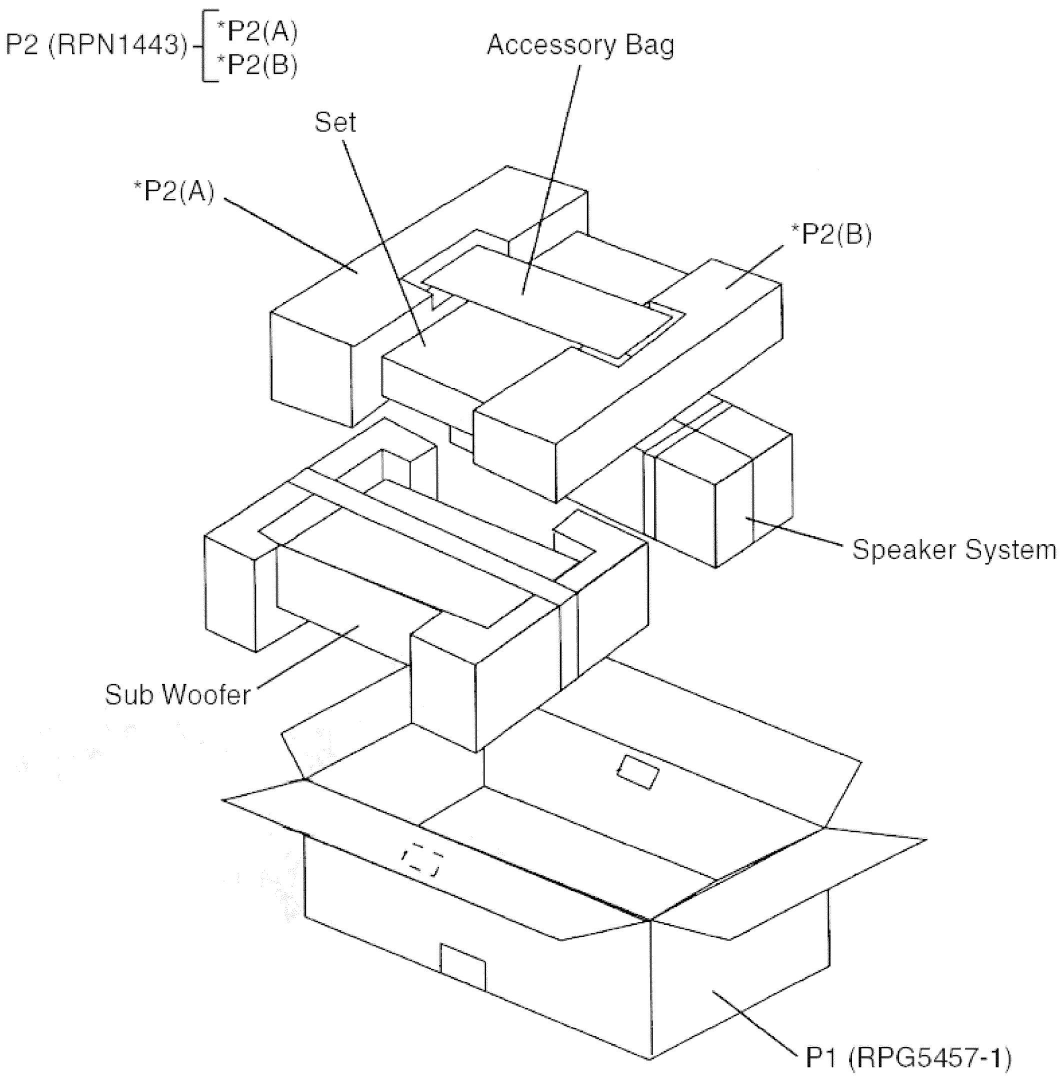
Ref. No.	Part No.	Part Name & Description	Remarks
C5201	EEVHB1C100R	10P 16V	[M]
C5202	EEVHB1C100R	10P 16V	[M]
C5203	ECUVNC104ZFV	0.1 16V	[M]
C5204	ECUVNC104ZFV	0.1 16V	[M]
C5205	ECUV1H102JCV	1000P 50V	[M]
C5206	ECUV1H102JCV	1000P 50V	[M]
C5207	ECUV1H102JCV	1000P 50V	[M]
C5208	ECUV1H102JCV	1000P 50V	[M]
C5211	EEVHB0J470R	47 6.3V	[M]
C5215	EEVHB0J470R	47 6.3V	[M]
C5221	ECUVNC104ZFV	0.1 16V	[M]
C5223	ECUVNC104ZFV	0.1 16V	[M]
C5224	ECUVNC104KBV	0.1 16V	[M]
C5225	ECUVNC104KBV	0.1 16V	[M]
C5231	ECUV1H101JCV	100P 50V	[M]
C5232	ECUVNC104ZFV	0.1 16V	[M]
C5233	ECUVNC104ZFV	0.1 16V	[M]
C5234	ECUV1H222KBV	2200P 50V	[M]
C5235	ECUV1H391JCV	390P 50V	[M]
C5236	ECUV1H102JCV	1000P 50V	[M]
C5237	ECUVNC104KBV	0.1 16V	[M]
C5238	ECUV1A224KBV	0.22 10V	[M]
C5239	ECUVNC104KBV	0.1 16V	[M]
C5240	ECUV1H561JCV	560P 50V	[M]
C5242	ECUV1H472KBV	4700P 50V	[M]
C5251	ECUVNC104ZFV	0.1 16V	[M]
C5252	VCS1AS106R	10 10V	[M]
C5253	ERJ3GEYJ472V	4700P 1/16W	[M]
C6201	EEVHB0J330R	33 6.3V	[M]
C6202	ECUVNC104ZFV	0.1 16V	[M]
C6203	ECUVNC104ZFV	0.1 16V	[M]
C6204	ECUVNC104ZFV	0.1 16V	[M]
C6205	ECUVNC104ZFV	0.1 16V	[M]
C6206	ECUVNC104ZFV	0.1 16V	[M]
C6211	ECUVNC104ZFV	0.1 16V	[M]
C6221	ECUVNC104ZFV	0.1 16V	[M]
C6222	ECUVNC104ZFV	0.1 16V	[M]
C6251	ECUVNA105ZFV	10 10V	[M]
C6252	ECUV1H471JCV	470P 50V	[M]
C6253	RCST1AY106RE	10 10V	[M]
C6257	EEVHB0J101P	100P 6.3V	[M]
C6301	ECUVNC104KBV	0.1 16V	[M]
C6302	ECUVNC104KBV	0.1 16V	[M]
C6303	ECUVNC104ZFV	0.1 16V	[M]
C6304	ECUVNC104ZFV	0.1 16V	[M]
C6305	ECUVNC104ZFV	0.1 16V	[M]
C6501	EEVHB0J330R	33 6.3V	[M]
C6502	EEVHB1C100R	10 16V	[M]
C6503	ECUVNC104ZFV	0.1 16V	[M]
C6504	ECUVNC104ZFV	0.1 16V	[M]
C6505	ECUVNC104ZFV	0.1 16V	[M]
C6511	ECUV1H150JCV	15P 50V	[M]
C6512	ECUV1H150JCV	15P 50V	[M]
C6553	ECUVNC104ZFV	0.1 16V	[M]
C7001	EEVHB0G101R	100P 4V	[M]
C7002	EEVHB0G101R	100P 4V	[M]
C7011	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C7012	ECUVNC104ZFV	0.1 16V	[M]
C7013	ECUVNC104ZFV	0.1 16V	[M]
C7014	ECUVNC104ZFV	0.1 16V	[M]
C7015	ECUVNC104ZFV	0.1 16V	[M]
C7016	ECUVNC104ZFV	0.1 16V	[M]
C7017	ECUVNC104ZFV	0.1 16V	[M]
C7018	ECUVNC104ZFV	0.1 16V	[M]
C7019	ECUVNC104ZFV	0.1 16V	[M]
C7020	ECUVNC104ZFV	0.1 16V	[M]
C7021	ECUVNC104ZFV	0.1 16V	[M]
C7022	ECUVNC104ZFV	0.1 16V	[M]
C7023	ECUVNC104ZFV	0.1 16V	[M]
C7024	ECUVNC104ZFV	0.1 16V	[M]
C7025	ECUVNC104ZFV	0.1 16V	[M]
C7026	ECUVNC104ZFV	0.1 16V	[M]
C7027	ECUVNC104ZFV	0.1 16V	[M]

18.4. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG5457-1	PACKING CASE	[M]
P2	RPN1443	POLYFOAM	[M]
P3	RPFX0012	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	EUR7502X10	REMOTE CONTROL	[M]
A1-1	UR75EC0103D	R/C BATTERY COVER	[M]
A2	RJA0065-A	AC CORD	[M] ⚠
A3	RQT5775-P	O/I BOOK	[M]
A4	RSA0006-J	FM ANTENNA	[M]
A5	RSA0012	AM LOOP ANTENNA	[M]
A6	RJL1P016B15A	VIDEO CABLE	[M]

18.5. Packaging


P2 (RPN1443)
*P2(A)
*P2(B)
Accessory Bag
Set
*P2(A)
*P2(B)
Speaker System
Sub Woofer
P1 (RPG5457-1)

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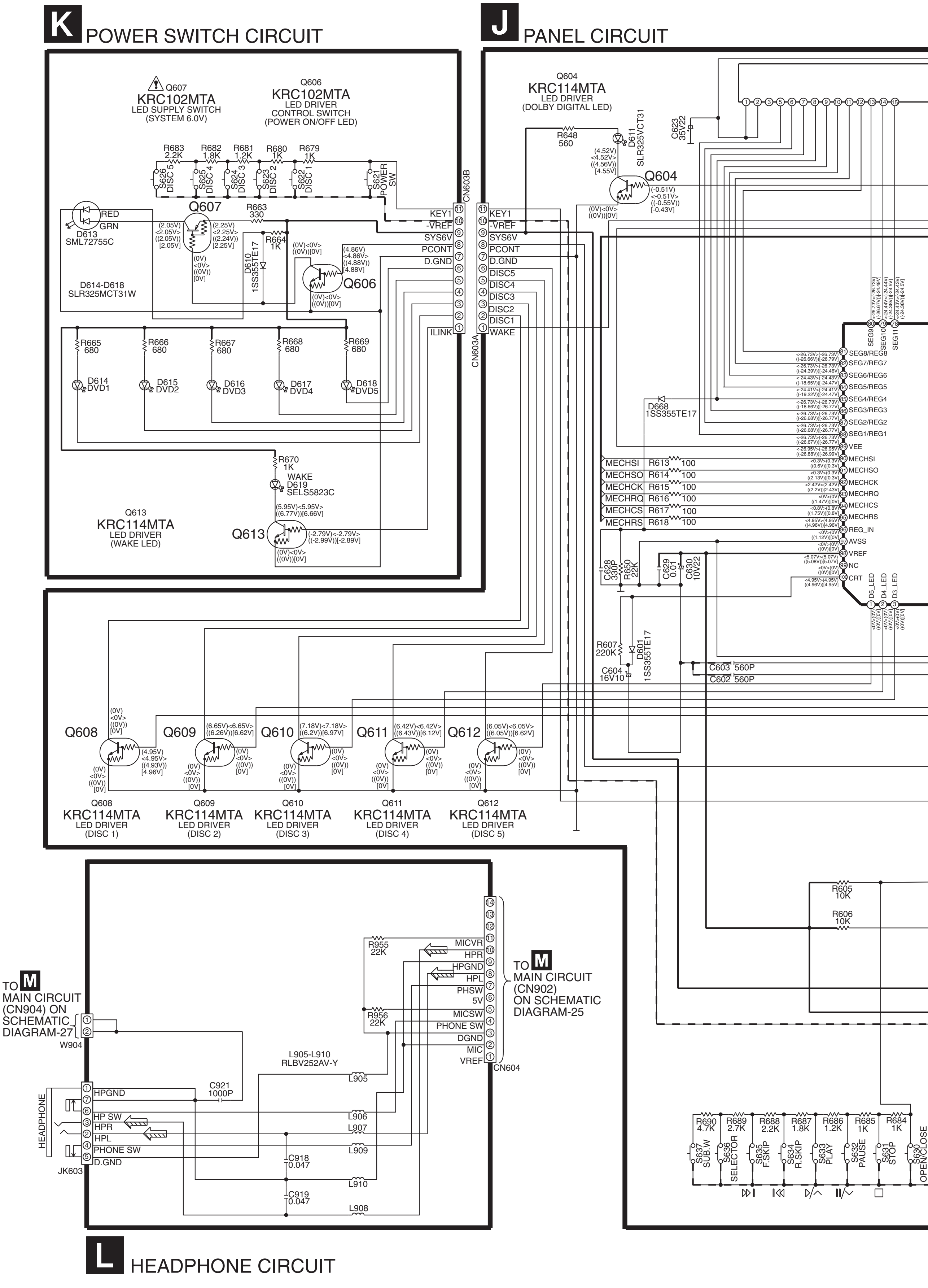
SCHEMATIC DIAGRAM - 23

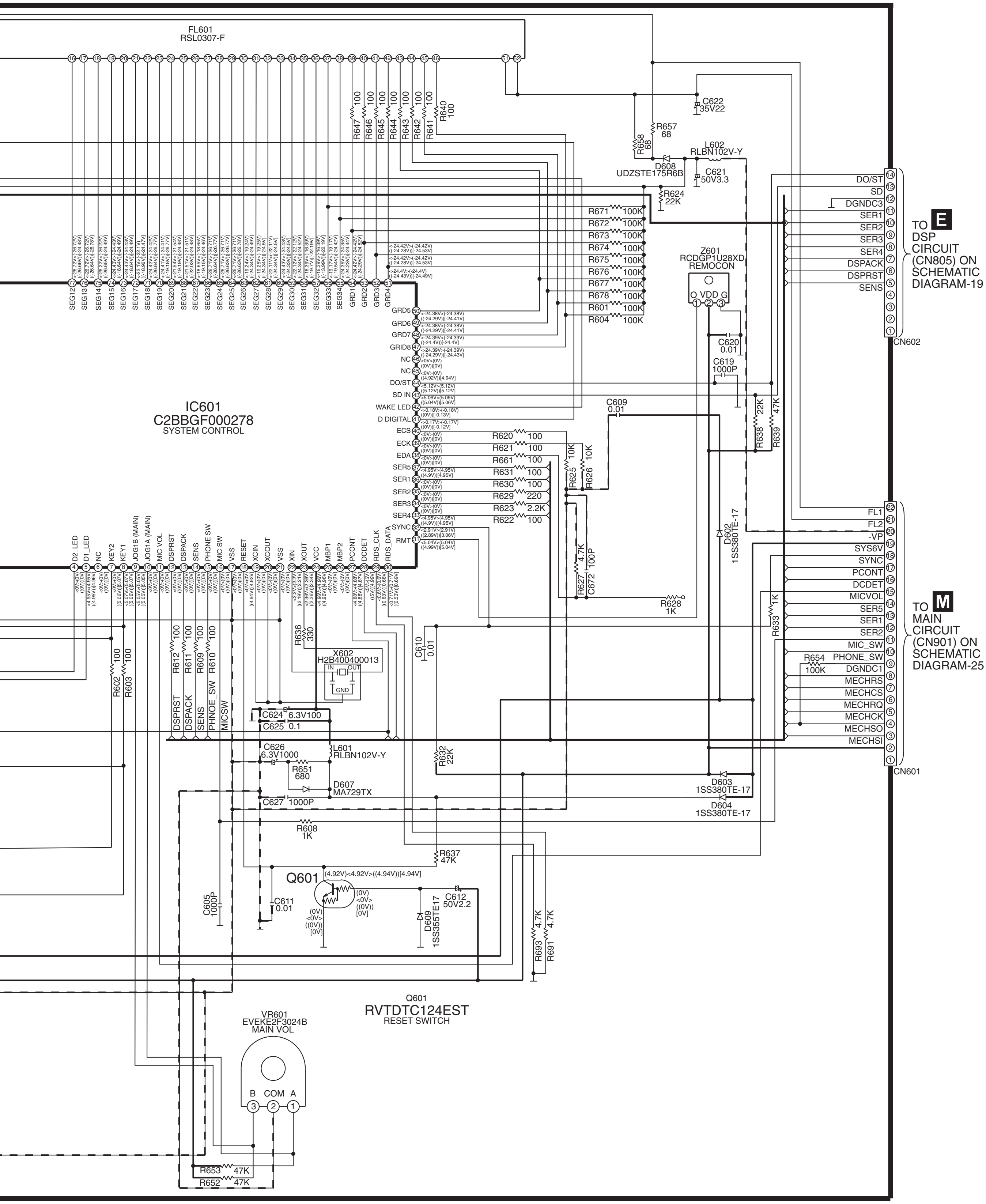
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE


K POWER SWITCH CIRCUIT
J PANEL CIRCUIT
L HEADPHONE CIRCUIT
Q607 KRC102MTA LED SUPPLY SWITCH (SYSTEM 6.0V)
Q606 KRC102MTA LED DRIVER CONTROL SWITCH (POWER ON/OFF LED)
Q604 KRC114MTA LED DRIVER (DOLBY DIGITAL LED)
R683 2.2K
R682 1.8K
R681 1.2K
R680 1K
R679 1K
S626 DISC 5
S625 DISC 4
S624 DISC 3
S623 DISC 2
S622 DISC 1
S621 POWER SW
D613 SML72755C
RED
GRN
R663 330
R664 1K
D610 1SS355TE17
D614-D618 SLR325MCT31W
CN603B
CN603A
KEY1
-VREF
SYS6V
PCONT
D.GND
DISC5
DISC4
DISC3
DISC2
DISC1
ILINK
WAKE
R665 680
R666 680
R667 680
R668 680
R669 680
D614 DVD1
D615 DVD2
D616 DVD3
D617 DVD4
D618 DVD5
R670 1K
WAKE D619 SELS5823C
Q613 KRC114MTA LED DRIVER (WAKE LED)
R648 560
D611 SLR325VCT31
C623 35V22
SEG9
SEG10
SEG11
SEG8/REG8
SEG7/REG7
SEG6/REG6
SEG5/REG5
SEG4/REG4
SEG3/REG3
SEG2/REG2
SEG1/REG1
VEE
MECHSI
MECHSO
MECHCK
MECHRQ
MECHCS
MECHRS
REG_IN
AVSS
VREF
NC
CRT
D5_LED
D4_LED
D3_LED
D668 1SS355TE17
R613 100
R614 100
R615 100
R616 100
R617 100
R618 100
C628 330P
R650 22K
C629 0.01
C630 10V22
R607 220K
D601 1SS355TE17
C604 16V10
C603 560P
C602 560P
Q608 KRC114MTA LED DRIVER (DISC 1)
Q609 KRC114MTA LED DRIVER (DISC 2)
Q610 KRC114MTA LED DRIVER (DISC 3)
Q611 KRC114MTA LED DRIVER (DISC 4)
Q612 KRC114MTA LED DRIVER (DISC 5)
R605 10K
R606 10K
R690 4.7K
R689 2.7K
R688 2.2K
R687 1.8K
R686 1.2K
R685 1K
R684 1K
S637 SUB.W
S636 SELECTOR
S635 F.SKIP
S634 R.SKIP
S633 PLAY
S632 PAUSE
S631 STOP
S630 OPEN/CLOSE
TO M MAIN CIRCUIT (CN904) ON SCHEMATIC DIAGRAM-27
W904
TO M MAIN CIRCUIT (CN902) ON SCHEMATIC DIAGRAM-25
CN604
MICVR
HPR
HPGND
HPL
PHSW
5V
MICSW
PHONE SW
DGND
MIC
VREF
R955 22K
R956 22K
L905-L910 RLBV252AV-Y
L905
L906
L907
L908
L909
L910
C921 1000P
C918 0.047
C919 0.047
HEADPHONE
JK603
HPGND
HP SW
HPR
HPL
PHONE SW
D.GND

SCHEMATIC DIAGRAM - 24

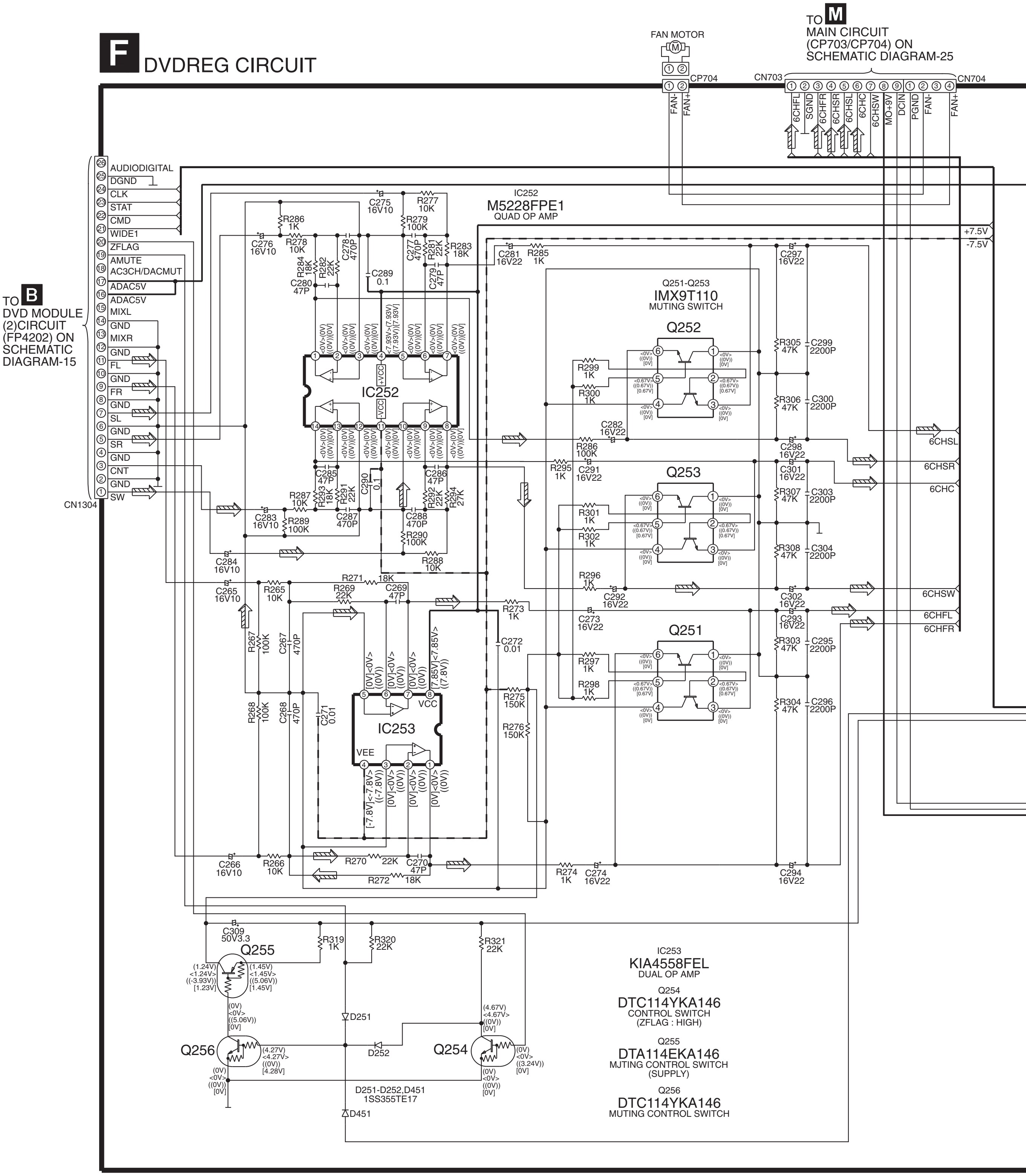
—— : +B SIGNAL LINE – – : -B SIGNAL LINE

J PANEL CIRCUIT

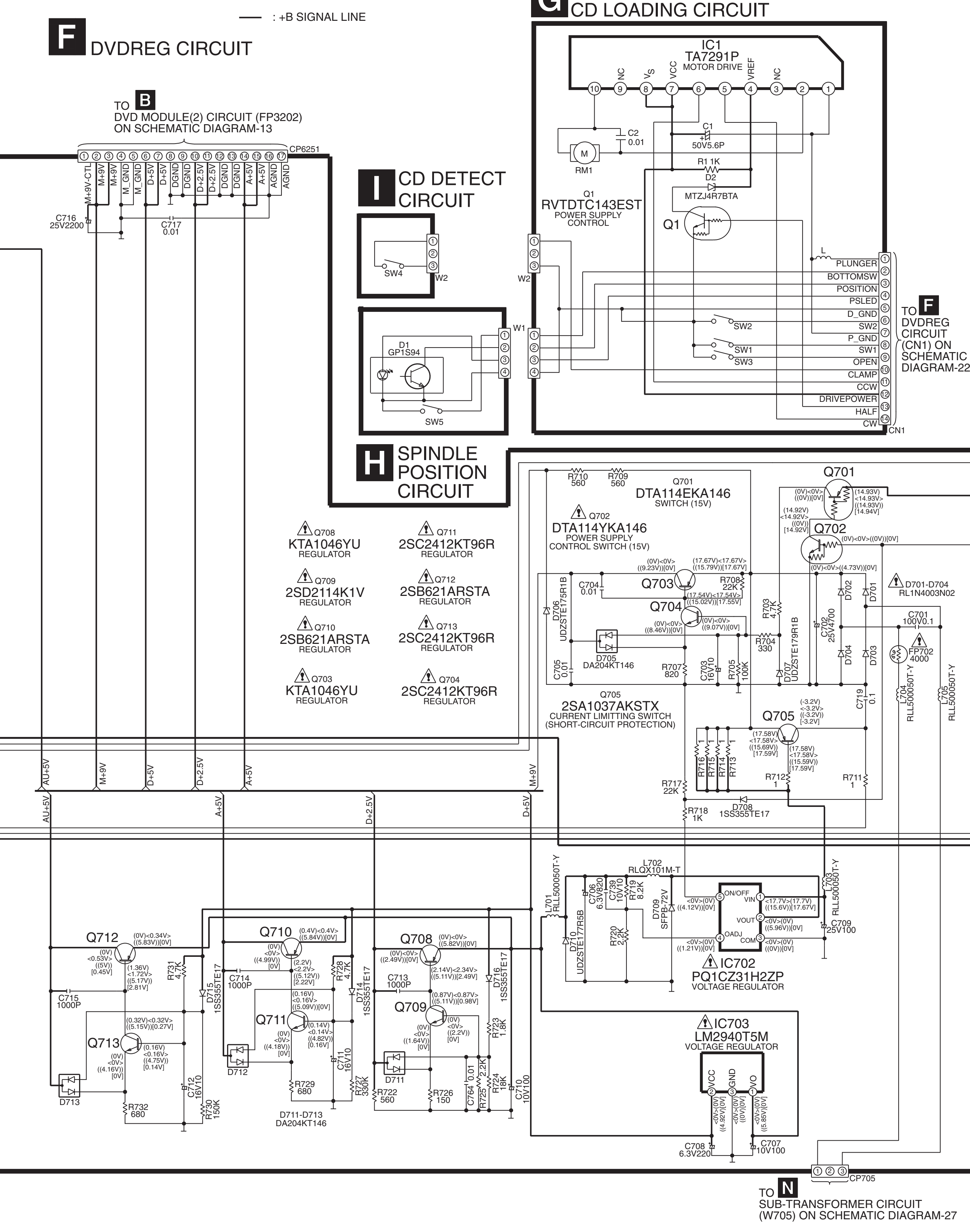

FL601
RSL0307-F
IC601
C2BBGF000278
SYSTEM CONTROL
SEG12
SEG13
SEG14
SEG15
SEG16
SEG17
SEG18
SEG19
SEG20
SEG21
SEG22
SEG23
SEG24
SEG25
SEG26
SEG27
SEG28
SEG29
SEG30
SEG31
SEG32
SEG33
SEG34
GRD1
GRD2
GRD3
GRD4
GRD5
GRD6
GRD7
GRID8
NC
NC
DO/ST
SD IN
WAKE LED
D DIGITAL
ECS
ECK
EDA
SER5
SER1
SER2
SER3
SER4
SYNC
RMT
D2_LED
D1_LED
NC
KEY2
KEY1
JOG1B (MAIN)
JOG1A (MAIN)
MIC VOL
DSPRST
DSPACK
SENS
PHONE SW
MIC SW
VSS
RESET
XCIN
XCOUT
VSS
XIN
XOUT
VCC
MBP1
MBP2
PCONT
DCDET
RDS_CLK
RDS_DATA
R647 100
R646 100
R645 100
R644 100
R643 100
R642 100
R641 100
R640 100
C622 35V22
R657 68
R658 68
L602 RLBN102V-Y
D608 UDZSTE175R6B
C621 50V3.3
R624 22K
R671 100K
R672 100K
R673 100K
R674 100K
R675 100K
R676 100K
R677 100K
R678 100K
R601 100K
R604 100K
Z601
RCDGP1U28XD
REMOCON
O VDD G
C620 0.01
C619 1000P
C609 0.01
R638 22K
R639 47K
R620 100
R621 100
R661 100
R631 100
R630 100
R629 220
R623 2.2K
R622 100
R625 10K
R626 10K
R627 4.7K
C672 100P
R628 1K
D602 1SS380TE-17
R636 330
X602 H2B400400013
IN OUT GND
C610 0.01
R602 100
R603 100
R612 100
R611 100
R609 100
R610 100
DSPRST
DSPACK
SENS
PHNOE_SW
MICSW
C624 6.3V100
C625 0.1
C626 6.3V1000
L601 RLBN102V-Y
R651 680
D607 MA729TX
C627 1000P
R608 1K
R637 47K
R632 22K
R633 1K
R654 100K
D603 1SS380TE-17
D604 1SS380TE-17
Q601
(4.92V)<4.92V>((4.94V))[4.94V]
C605 1000P
C611 0.01
C612 50V2.2
D609 1SS355TE17
R693 4.7K
R691 4.7K
Q601
RVTDTC124EST
RESET SWITCH
VR601
EVEKE2F3024B
MAIN VOL
B COM A
R653 47K
R652 47K
DO/ST 14
SD 13
DGNDC3 12
SER1 11
SER2 10
SER3 9
SER4 8
DSPACK 7
DSPRST 6
SENS 5
CN602
TO E DSP CIRCUIT (CN805) ON SCHEMATIC DIAGRAM-19
FL1 22
FL2 21
-VP 20
SYS6V 19
SYNC 18
PCONT 17
DCDET 16
MICVOL 15
SER5 14
SER1 13
SER2 12
MIC_SW 11
PHONE_SW 10
DGNDC1 9
MECHRS 8
MECHCS 7
MECHRQ 6
MECHCK 5
MECHSO 4
MECHSI 3
CN601
TO M MAIN CIRCUIT (CN901) ON SCHEMATIC DIAGRAM-25

SCHEMATIC DIAGRAM - 20

—— : +B SIGNAL LINE – – : -B SIGNAL LINE

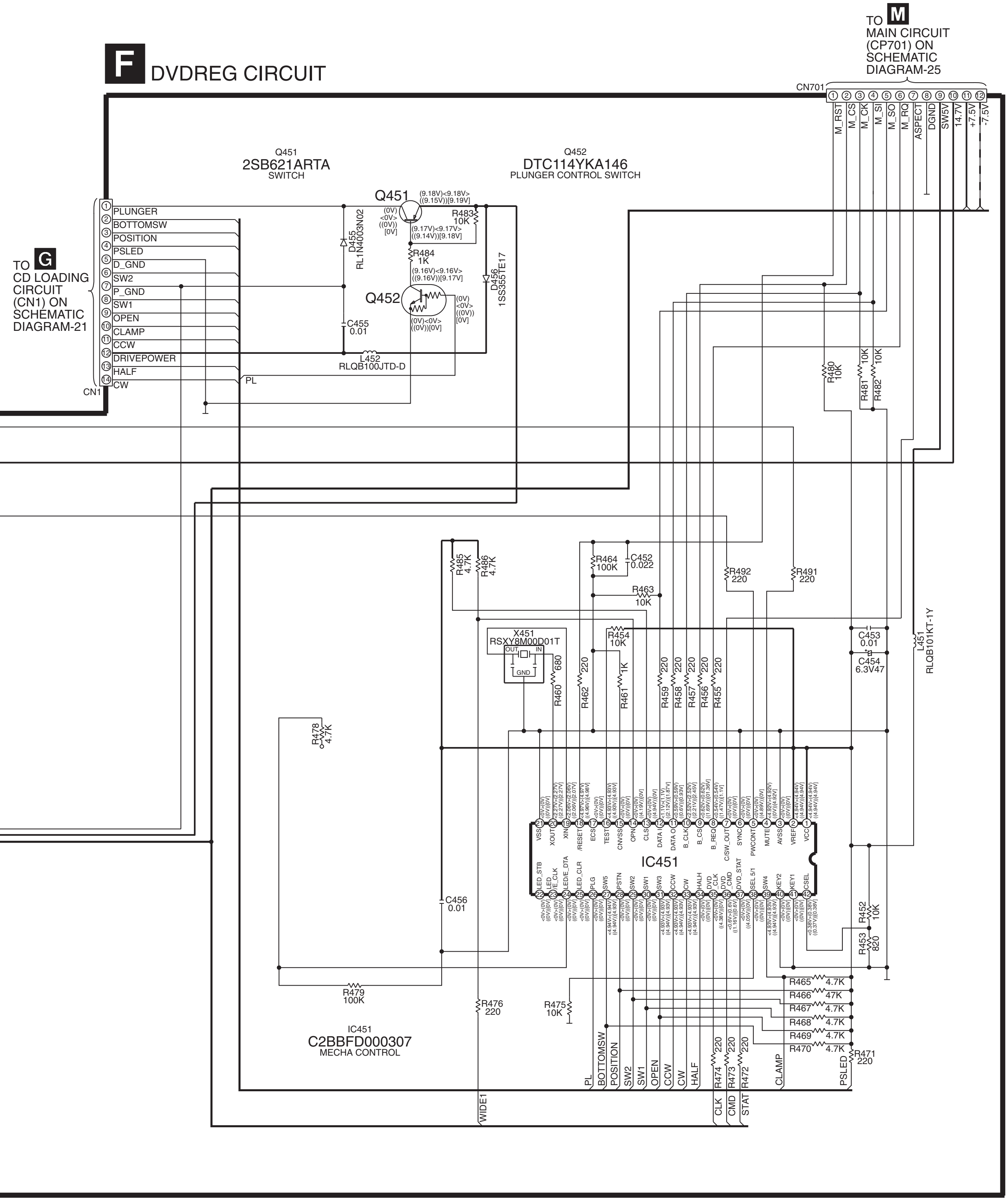

F
DVDREG CIRCUIT
FAN MOTOR
CP704
FAN-
FAN+
TO M
MAIN CIRCUIT
(CP703/CP704) ON
SCHEMATIC DIAGRAM-25
CN703
CN704
6CHFL
SGND
6CHFR
6CHSR
6CHSL
6CHC
6CHSW
MO+9V
DCIN
PGND
FAN-
FAN+
TO B
DVD MODULE
(2)CIRCUIT
(FP4202) ON
SCHEMATIC
DIAGRAM-15
CN1304
AUDIODIGITAL
DGND
CLK
STAT
CMD
WIDE1
ZFLAG
AMUTE
AC3CH/DACMUT
ADAC5V
ADAC5V
MIXL
GND
MIXR
GND
FL
GND
FR
GND
SL
GND
SR
GND
CNT
GND
SW
IC252
M5228FPE1
QUAD OP AMP
IC252
+VCC
-VCC
+7.5V
-7.5V
Q251-Q253
IMX9T110
MUTING SWITCH
Q252
Q253
Q251
6CHSL
6CHSR
6CHC
6CHSW
6CHFL
6CHFR
IC253
VCC
VEE
C275 16V10
R277 10K
R286 1K
R279 100K
C276 16V10
R278 10K
R284 18K
R282 22K
C278 470P
C277 470P
R281 22K
R283 18K
C281 16V22
R285 1K
C297 16V22
C280 47P
C289 0.1
C279 47P
R305 47K
C299 2200P
R299 1K
R300 1K
R306 47K
C300 2200P
C282 16V22
R286 100K
C298 16V22
R295 1K
C291 16V22
C301 16V22
C285 47P
C286 47P
R287 10K
R293 18K
R291 22K
C290 0.1
R292 22K
R294 27K
R307 47K
C303 2200P
C283 16V10
R289 100K
C287 470P
C288 470P
R301 1K
R302 1K
R290 100K
R308 47K
C304 2200P
C284 16V10
R288 10K
R296 1K
C292 16V22
C302 16V22
C265 16V10
R265 10K
R271 18K
R269 22K
C269 47P
R273 1K
C273 16V22
C293 16V22
R267 100K
C267 470P
C272 0.01
R303 47K
C295 2200P
R297 1K
R298 1K
R275 150K
R304 47K
C296 2200P
R268 100K
C268 470P
C271 0.01
R276 150K
C266 16V10
R266 10K
R270 22K
C270 47P
R272 18K
R274 1K
C274 16V22
C294 16V22
C309 50V3.3
Q255
R319 1K
R320 22K
R321 22K
D251
Q256
D252
Q254
D251-D252,D451
1SS355TE17
D451
IC253
KIA4558FEL
DUAL OP AMP
Q254
DTC114YKA146
CONTROL SWITCH
(ZFLAG : HIGH)
Q255
DTA114EKA146
MJTING CONTROL SWITCH
(SUPPLY)
Q256
DTC114YKA146
MUTING CONTROL SWITCH

SCHEMATIC DIAGRAM - 21


: +B SIGNAL LINE
F DVDREG CIRCUIT
TO B DVD MODULE(2) CIRCUIT (FP3202) ON SCHEMATIC DIAGRAM-13
CP6251
M+9V-CTL
M+9V
M+9V
M_GND
M_GND
D+5V
D+5V
DGND
DGND
D+2.5V
D+2.5V
DGND
DGND
A+5V
A+5V
AGND
AGND
C716 25V2200
C717 0.01
G CD LOADING CIRCUIT
IC1 TA7291P MOTOR DRIVE
NC
VS
VCC
VREF
NC
C2 0.01
C1 50V5.6P
RM1
R1 1K
D2 MTZJ4R7BTA
Q1 RVTDTC143EST POWER SUPPLY CONTROL
Q1
L
PLUNGER
BOTTOMSW
POSITION
PSLED
D_GND
SW2
P_GND
SW1
OPEN
CLAMP
CCW
DRIVEPOWER
HALF
CW
CN1
SW2
SW1
SW3
W2
W1
TO F DVDREG CIRCUIT (CN1) ON SCHEMATIC DIAGRAM-22
I CD DETECT CIRCUIT
SW4
W2
D1 GP1S94
SW5
W1
H SPINDLE POSITION CIRCUIT
Q708 KTA1046YU REGULATOR
Q711 2SC2412KT96R REGULATOR
Q709 2SD2114K1V REGULATOR
Q712 2SB621ARSTA REGULATOR
Q710 2SB621ARSTA REGULATOR
Q713 2SC2412KT96R REGULATOR
Q703 KTA1046YU REGULATOR
Q704 2SC2412KT96R REGULATOR
R710 560
R709 560
Q701 DTA114EKA146 SWITCH (15V)
Q702 DTA114YKA146 POWER SUPPLY CONTROL SWITCH (15V)
Q701
Q702
Q703
Q704
C704 0.01
R708 22K
D706 UDZSTE175R1B
D705 DA204KT146
C705 0.01
R707 820
C703 16V10
R705 100K
R704 330
R703 4.7K
D707 UDZSTE179R1B
C702 25V4700
D702
D701
D704
D703
D701-D704 RL1N4003N02
C701 100V0.1
FP702 4000
C719 0.1
L704 RLL500050T-Y
L705 RLL500050T-Y
Q705 2SA1037AKSTX CURRENT LIMITTING SWITCH (SHORT-CIRCUIT PROTECTION)
Q705
R716 1
R715 1
R714 1
R713 1
R712 1
R711 1
R717 22K
R718 1K
D708 1SS355TE17
AU+5V
M+9V
D+5V
D+2.5V
A+5V
M+9V
AU+5V
A+5V
D+2.5V
D+5V
L701 RLL500050T-Y
L702 RLQX101M-T
C706 6.3V820
C739 10V10
R719 8.2K
D709 SFPB-72V
R720 2.2K
D710 UDZSTE177R5B
ON/OFF
VIN
VOUT
OADJ
COM
IC702 PQ1CZ31H2ZP VOLTAGE REGULATOR
L703 RLL500050T-Y
C709 25V100
Q712
C715 1000P
R731 4.7K
D715 1SS355TE17
Q713
C712 16V10
R730 150K
R732 680
D713
Q710
C714 1000P
R728 4.7K
D714 1SS355TE17
Q711
D712
R729 680
C711 16V10
R727 330K
D711-D713 DA204KT146
Q708
C713 1000P
Q709
D716 1SS355TE17
D711
R722 560
R726 150
C764 0.01
R725 2.2K
R723 1.8K
R724 18K
C710 10V100
IC703 LM2940T5M VOLTAGE REGULATOR
VCC
GND
VO
C708 6.3V220
C707 10V100
CP705
TO N SUB-TRANSFORMER CIRCUIT (W705) ON SCHEMATIC DIAGRAM-27

SCHEMATIC DIAGRAM - 22

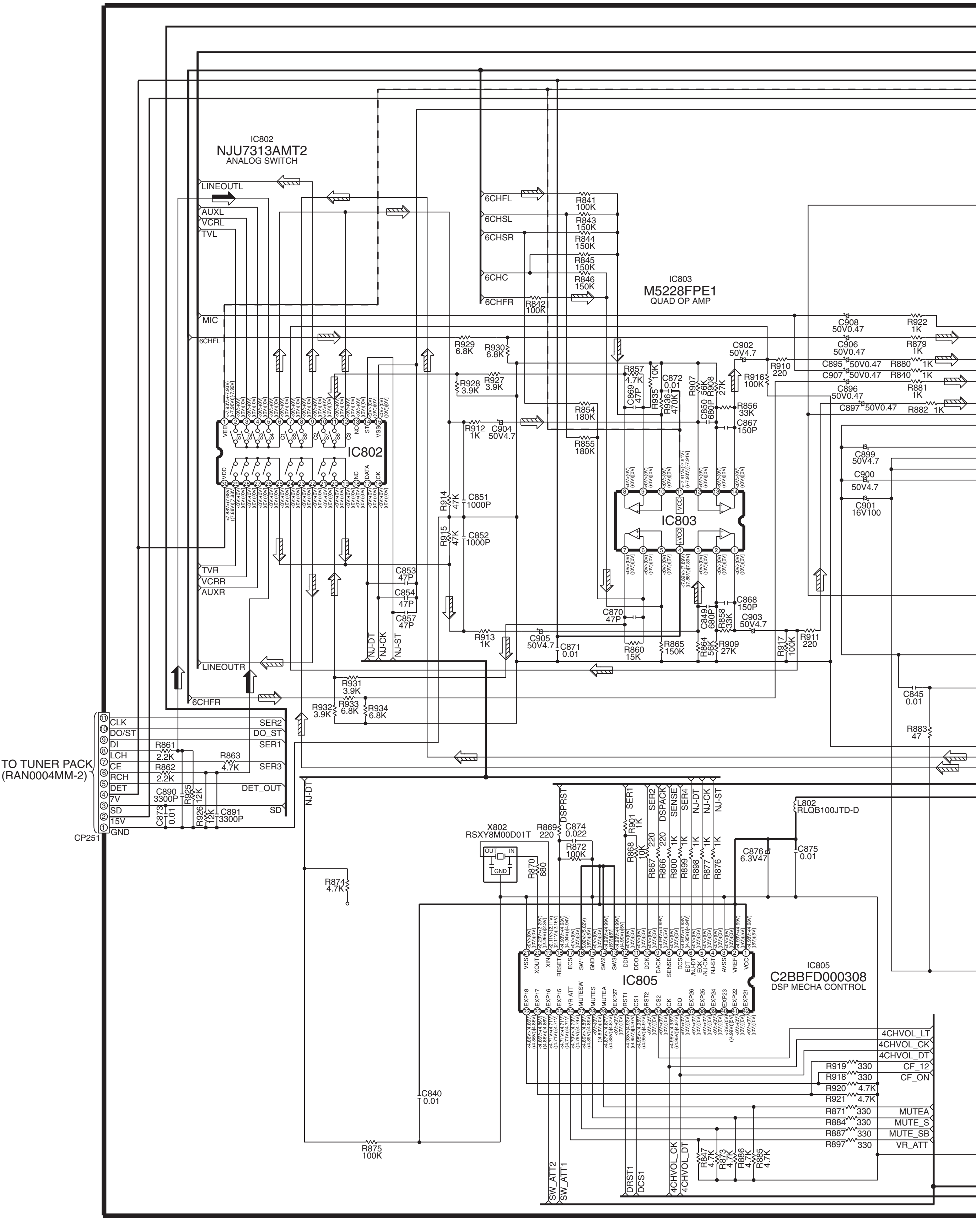
—— : +B SIGNAL LINE   – – : -B SIGNAL LINE


F DVDREG CIRCUIT
TO M MAIN CIRCUIT (CP701) ON SCHEMATIC DIAGRAM-25
CN701
① M_RST
② M_CS
③ M_CK
④ M_SI
⑤ M_SO
⑥ M_RQ
⑦ ASPECT
⑧ DGND
⑨ SW5V
⑩ 14.7V
⑪ +7.5V
⑫ -7.5V
Q451 2SB621ARTA SWITCH
Q452 DTC114YKA146 PLUNGER CONTROL SWITCH
TO G CD LOADING CIRCUIT (CN1) ON SCHEMATIC DIAGRAM-21
CN1
① PLUNGER
② BOTTOMSW
③ POSITION
④ PSLED
⑤ D_GND
⑥ SW2
⑦ P_GND
⑧ SW1
⑨ OPEN
⑩ CLAMP
⑪ CCW
⑫ DRIVEPOWER
⑬ HALF
⑭ CW
PL
Q451
Q452
D455 RL1N4003N02
D456 1SS355TE17
R483 10K
R484 1K
C455 0.01
L452 RLQB100JTD-D
R480 10K
R481 10K
R482 10K
R485 4.7K
R486 4.7K
R464 100K
C452 0.022
R463 10K
R492 220
R491 220
X451 RSXY8M00D01T
OUT IN GND
R454 10K
R460 680
R462 220
R461 1K
R459 220
R458 220
R457 220
R456 220
R455 220
C453 0.01
C454 6.3V47
L451 RLQB101KT-1Y
R478 4.7K
C456 0.01
R479 100K
R476 220
R475 10K
R452 10K
R453 820
R465 4.7K
R466 47K
R467 4.7K
R468 4.7K
R469 4.7K
R470 4.7K
R471 220
R474 220
R473 220
R472 220
IC451
VSS XOUT XIN /RESET ECS TEST CNVSS OPN CLS DATA I DATA O B_CLK B_CS B_REQ C/SW_OUT SYNC PWCONT MUTE AVSS VREF VCC
LED_STB LED /E_CLK LED/E_DTA LED_CLR PLG SW5 PSTN SW2 SW1 SW3 CCW CW HALH DVD_CLK DVD_CMD DVD_STAT SEL 5/1 SW4 KEY2 KEY1 CSEL
PL BOTTOMSW POSITION SW2 SW1 OPEN CCW CW HALF CLK CMD STAT CLAMP PSLED WIDE1
IC451 C2BBFD000307 MECHA CONTROL

SCHEMATIC DIAGRAM - 18

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : FM/AM SIGNAL LINE

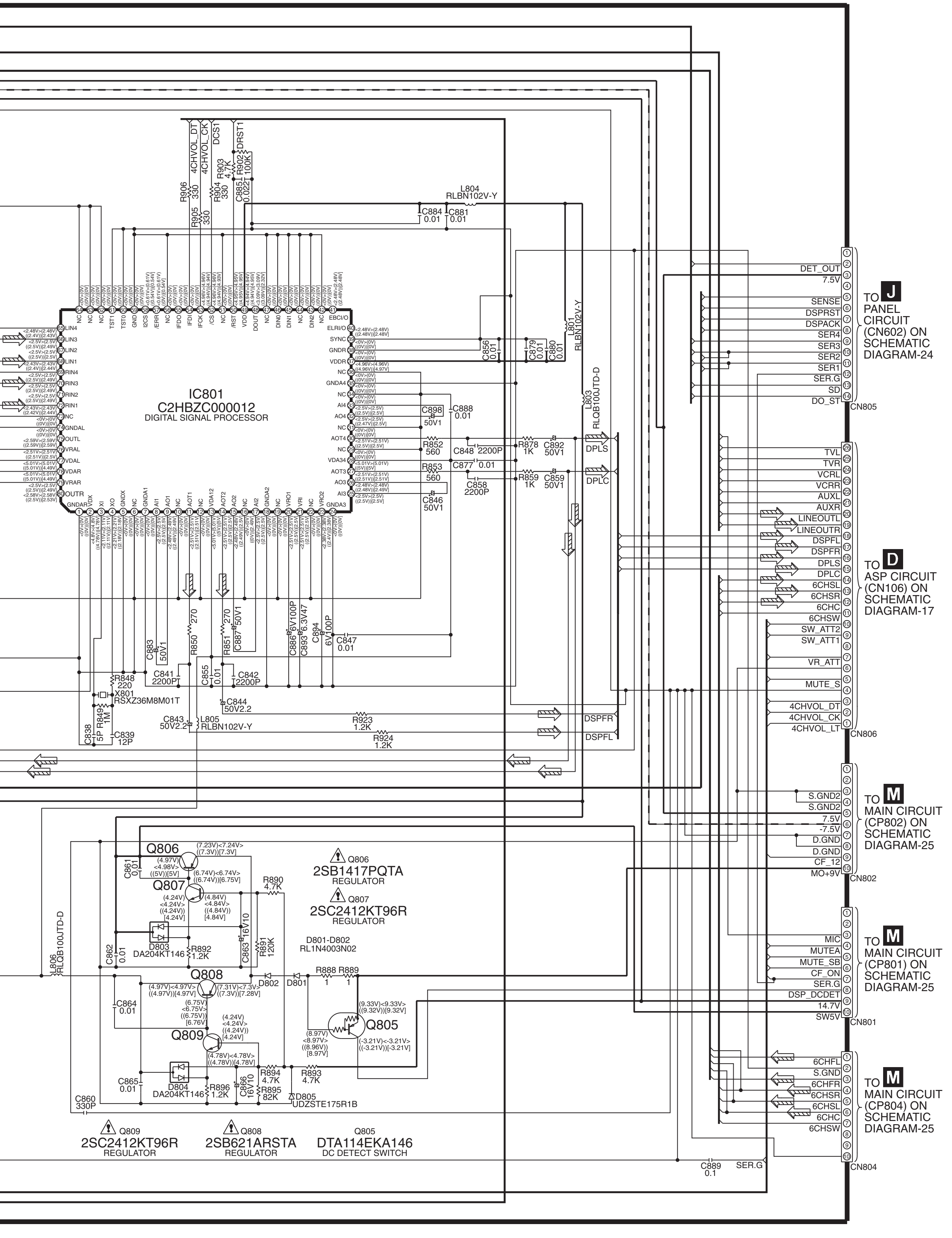
E DSP CIRCUIT


IC802
NJU7313AMT2
ANALOG SWITCH
LINEOUTL
AUXL
VCRL
TVL
MIC
6CHFL
TVR
VCRR
AUXR
LINEOUTR
6CHFR
IC802
VEE
VDD
VSS
ST
DATA
CK
NC
6CHFL
6CHSL
6CHSR
6CHC
6CHFR
R841 100K
R843 150K
R844 150K
R845 150K
R846 150K
R842 100K
IC803
M5228FPE1
QUAD OP AMP
IC803
VCC
+VCC
R929 6.8K
R930 6.8K
R928 3.9K
R927 3.9K
R912 1K
C904 50V4.7
R914 47K
C851 1000P
R915 47K
C852 1000P
C853 47P
C854 47P
C857 47P
R913 1K
C905 50V4.7
C871 0.01
R854 180K
R855 180K
R857 4.7K
C869 47P
R935 10K
R936 470K
C872 0.01
R907 56K
R908 27K
C850 680P
R856 33K
C867 150P
C902 50V4.7
R910 220
R916 100K
C870 47P
R860 15K
R865 150K
R864 56K
R909 27K
C849 680P
R858 33K
C868 150P
C903 50V4.7
R917 100K
R911 220
C908 50V0.47
R922 1K
C906 50V0.47
R879 1K
C895 50V0.47
R880 1K
C907 50V0.47
R840 1K
C896 50V0.47
R881 1K
C897 50V0.47
R882 1K
C899 50V4.7
C900 50V4.7
C901 16V100
C845 0.01
R883 47
NJ-DT
NJ-CK
NJ-ST
R931 3.9K
R932 3.9K
R933 6.8K
R934 6.8K
TO TUNER PACK
(RAN0004MM-2)
CP251
CLK
DO/ST
DI
LCH
CE
RCH
DET
7V
SD
15V
GND
SER2
DO_ST
SER1
SER3
DET_OUT
SD
R861 2.2K
R862 2.2K
R863 4.7K
C890 3300P
R925 12K
R926 12K
C873 0.01
C891 3300P
NJ-DT
DSPRST
SER1
SER2
DSPACK
SENSE
SER4
NJ-DT
NJ-CK
NJ-ST
X802
RSXY8M00D01T
OUT
IN
GND
R869 220
C874 0.022
R872 100K
R870 680
R901 1K
R868 10K
R867 220
R866 220
R900 1K
R899 1K
R898 1K
R877 1K
R876 1K
L802
RLQB100JTD-D
C876 6.3V47
C875 0.01
R874 4.7K
IC805
C2BBFD000308
DSP MECHA CONTROL
IC805
VSS
XOUT
XIN
RESET
ECS
SW1
GND
SW2
SW3
DDI
DDO
DCK
DACK
SENSE
DCS
EDT /NJ-DT
ECK /NJ-CK
NJ-ST
AVSS
VREF
VCC
EXP18
EXP17
EXP16
EXP15
VR-ATT
MUTESW
MUTES
MUTEA
EXP27
RST1
CS1
RST2
CS2
CK
DO
EXP26
EXP25
EXP24
EXP23
EXP22
EXP21
C840 0.01
R875 100K
4CHVOL_LT
4CHVOL_CK
4CHVOL_DT
R919 330
CF_12
R918 330
CF_ON
R920 4.7K
R921 4.7K
R871 330
MUTEA
R884 330
MUTE_S
R887 330
MUTE_SB
R897 330
VR_ATT
R847 4.7K
R873 4.7K
R886 4.7K
R885 4.7K
SW_ATT2
SW_ATT1
DRST1
DCS1
4CHVOL_CK
4CHVOL_DT

SCHEMATIC DIAGRAM - 19

E DSP CIRCUIT

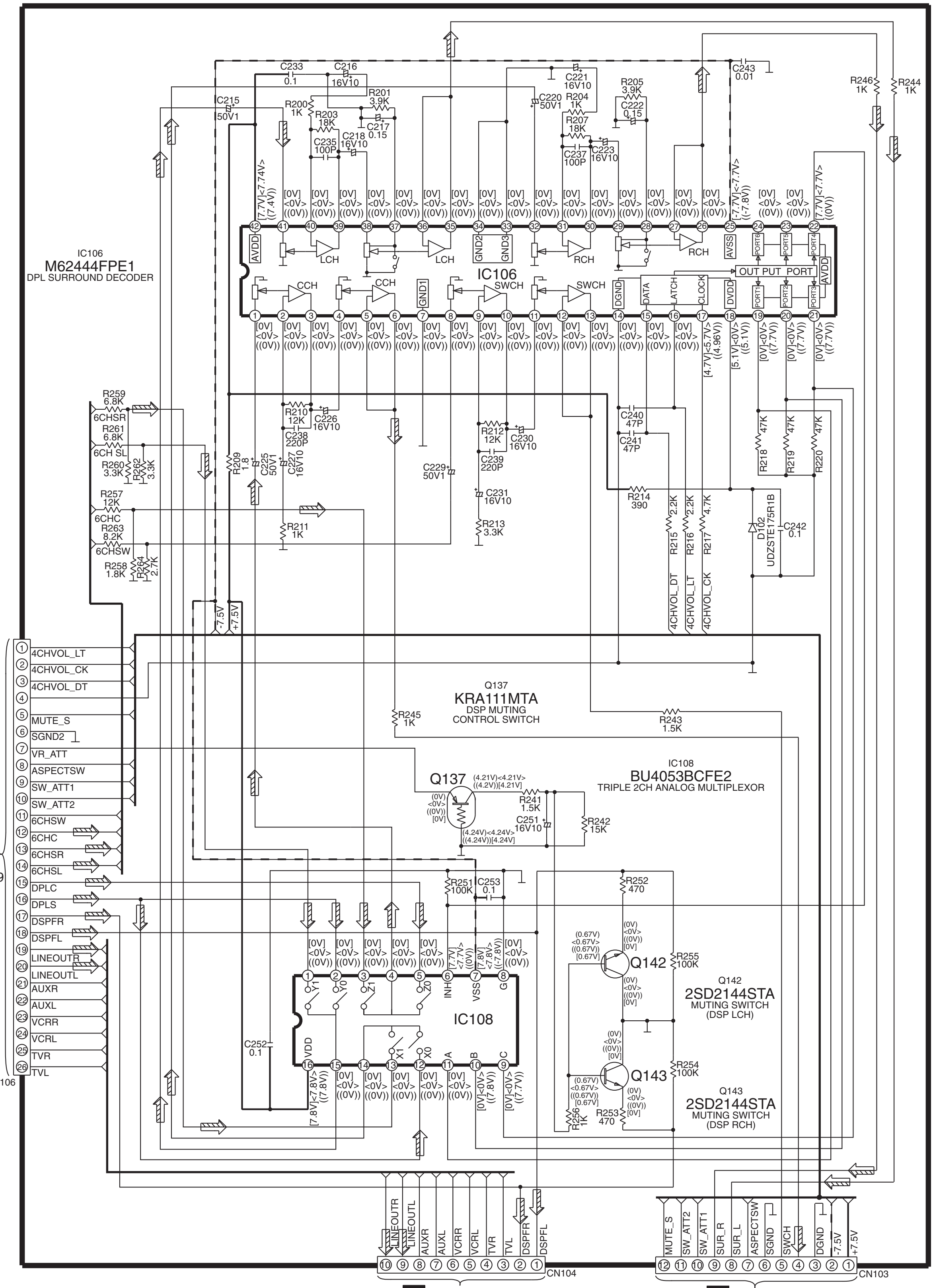
—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE


IC801
C2HBZC000012
DIGITAL SIGNAL PROCESSOR
4CHVOL_DT
4CHVOL_CK
DCS1
DRST1
R906 330
R905 330
R904 330
R903 4.7K
R902 100K
C885 0.022
L804 RLBN102V-Y
C884 0.01
C881 0.01
L801 RLBN102V-Y
L803 RLQB100JTD-D
C856 0.01
C879 0.01
C880 0.01
C898 50V1
C888 0.01
R852 560
C848 2200P
R878 1K
C892 50V1
DPLS
R853 560
C877 0.01
C858 2200P
R859 1K
C859 50V1
DPLC
C846 50V1
R850 270
R851 270
C887 50V1
C886 6V100P
C893 6.3V47
C894 6V100P
C847 0.01
C883 50V1
C841 2200P
C855 0.01
C842 2200P
R848 220
X801 RSXZ36M8M01T
R849 1M
C838 5P
C839 12P
C844 50V2.2
C843 50V2.2
L805 RLBN102V-Y
R923 1.2K
R924 1.2K
DSPFR
DSPFL
Q806
Q807
Q808
Q809
Q805
C861 0.01
C862 0.01
D803 DA204KT146
R892 1.2K
C863 16V10
R890 4.7K
R891 120K
L806 RLQB100JTD-D
D802
D801
R888 1
R889 1
C864 0.01
C865 0.01
D804 DA204KT146
R896 1.2K
C866 16V10
R894 4.7K
R895 82K
R893 4.7K
D805 UDZSTE175R1B
C860 330P
C889 0.1
SER.G
Q806 2SB1417PQTA REGULATOR
Q807 2SC2412KT96R REGULATOR
D801-D802 RL1N4003N02
Q809 2SC2412KT96R REGULATOR
Q808 2SB621ARSTA REGULATOR
Q805 DTA114EKA146 DC DETECT SWITCH
DET_OUT
7.5V
SENSE
DSPRST
DSPACK
SER4
SER3
SER2
SER1
SER.G
SD
DO_ST
CN805
TO J PANEL CIRCUIT (CN602) ON SCHEMATIC DIAGRAM-24
TVL
TVR
VCRL
VCRR
AUXL
AUXR
LINEOUTL
LINEOUTR
DSPFL
DSPFR
DPLS
DPLC
6CHSL
6CHSR
6CHC
6CHSW
SW_ATT2
SW_ATT1
VR_ATT
MUTE_S
4CHVOL_DT
4CHVOL_CK
4CHVOL_LT
CN806
TO D ASP CIRCUIT (CN106) ON SCHEMATIC DIAGRAM-17
S.GND2
S.GND2
7.5V
-7.5V
D.GND
D.GND
CF_12
MO+9V
CN802
TO M MAIN CIRCUIT (CP802) ON SCHEMATIC DIAGRAM-25
MIC
MUTEA
MUTE_SB
CF_ON
SER.G
DSP_DCDET
14.7V
SW5V
CN801
TO M MAIN CIRCUIT (CP801) ON SCHEMATIC DIAGRAM-25
6CHFL
S.GND
6CHFR
6CHSR
6CHSL
6CHC
6CHSW
CN804
TO M MAIN CIRCUIT (CP804) ON SCHEMATIC DIAGRAM-25

SCHEMATIC DIAGRAM - 17

―― : +B SIGNAL LINE　– – : -B SIGNAL LINE　⇨ : MAIN SIGNAL LINE

D ASP CIRCUIT


IC106
M62444FPE1
DPL SURROUND DECODER
IC106
AVDD
LCH
LCH
GND2
GND3
RCH
RCH
AVSS
PORT6
PORT5
PORT4
AVDD
OUT PUT PORT
CCH
CCH
GND1
SWCH
SWCH
DGND
DATA
LATCH
CLOCK
DVDD
PORT1
PORT2
PORT3
[7.7V]<7.74V>((7.4V))
[-7.7V]<-7.7V>((-7.8V))
[7.7V]<7.7V>((0V))
[0V]<0V>((0V))
[4.7V]<5.7V>((4.96V))
[5.1V]<0V>((5.1V))
[0V]<0V>((7.7V))
C233 0.1
C216 16V10
C215 50V1
R200 1K
R201 3.9K
R203 18K
C217 0.15
C218 16V10
C235 100P
C221 16V10
C220 50V1
R204 1K
R205 3.9K
C222 0.15
R207 18K
C237 100P
C223 16V10
C243 0.01
R246 1K
R244 1K
R259 6.8K
6CHSR
R261 6.8K
6CH SL
R260 3.3K
R262 3.3K
R257 12K
6CHC
R263 8.2K
6CHSW
R258 1.8K
R264 2.7K
R209 1.8
C225 50V1
C227 16V10
R210 12K
C226 16V10
C238 220P
R211 1K
C229 50V1
R212 12K
C230 16V10
C239 220P
C231 16V10
R213 3.3K
C240 47P
C241 47P
R214 390
R215 2.2K
R216 2.2K
R217 4.7K
4CHVOL_DT
4CHVOL_LT
4CHVOL_CK
D102 UDZSTE175R1B
C242 0.1
R218 47K
R219 47K
R220 47K
-7.5V
+7.5V
CN106
4CHVOL_LT
4CHVOL_CK
4CHVOL_DT
MUTE_S
SGND2
VR_ATT
ASPECTSW
SW_ATT1
SW_ATT2
6CHSW
6CHC
6CHSR
6CHSL
DPLC
DPLS
DSPFR
DSPFL
LINEOUTR
LINEOUTL
AUXR
AUXL
VCRR
VCRL
TVR
TVL
Q137
KRA111MTA
DSP MUTING
CONTROL SWITCH
R245 1K
R243 1.5K
Q137 (4.21V)<4.21V>((4.2V))[4.21V]
(0V)<0V>((0V))[0V]
(4.24V)<4.24V>((4.24V))[4.24V]
R241 1.5K
C251 16V10
R242 15K
IC108
BU4053BCFE2
TRIPLE 2CH ANALOG MULTIPLEXOR
R251 100K
C253 0.1
R252 470
IC108
Y1 Y0 Z1 Z0 INH VSS G
VDD X1 X0 A B C
[7.7V]<-7.7V>((0V))
[7.8V]<-7.8V>((-7.8V))
[7.8V]<7.8V>((7.8V))
[0V]<0V>((7.8V))
[0V]<0V>((7.7V))
C252 0.1
Q142 (0.67V)<0.67V>((0.67V))[0.67V]
R255 100K
Q142
2SD2144STA
MUTING SWITCH
(DSP LCH)
Q143
R254 100K
Q143
2SD2144STA
MUTING SWITCH
(DSP RCH)
R256 1K
R253 470
LINEOUTR LINEOUTL AUXR AUXL VCRR VCRL TVR TVL DSPFR DSPFL
CN104
MUTE_S SW_ATT2 SW_ATT1 SUR_R SUR_L ASPECTSW SGND SWCH DGND -7.5V +7.5V
CN103

TO **E** DSP CIRCUIT (CN806) ON SCHEMATIC DIAGRAM-19

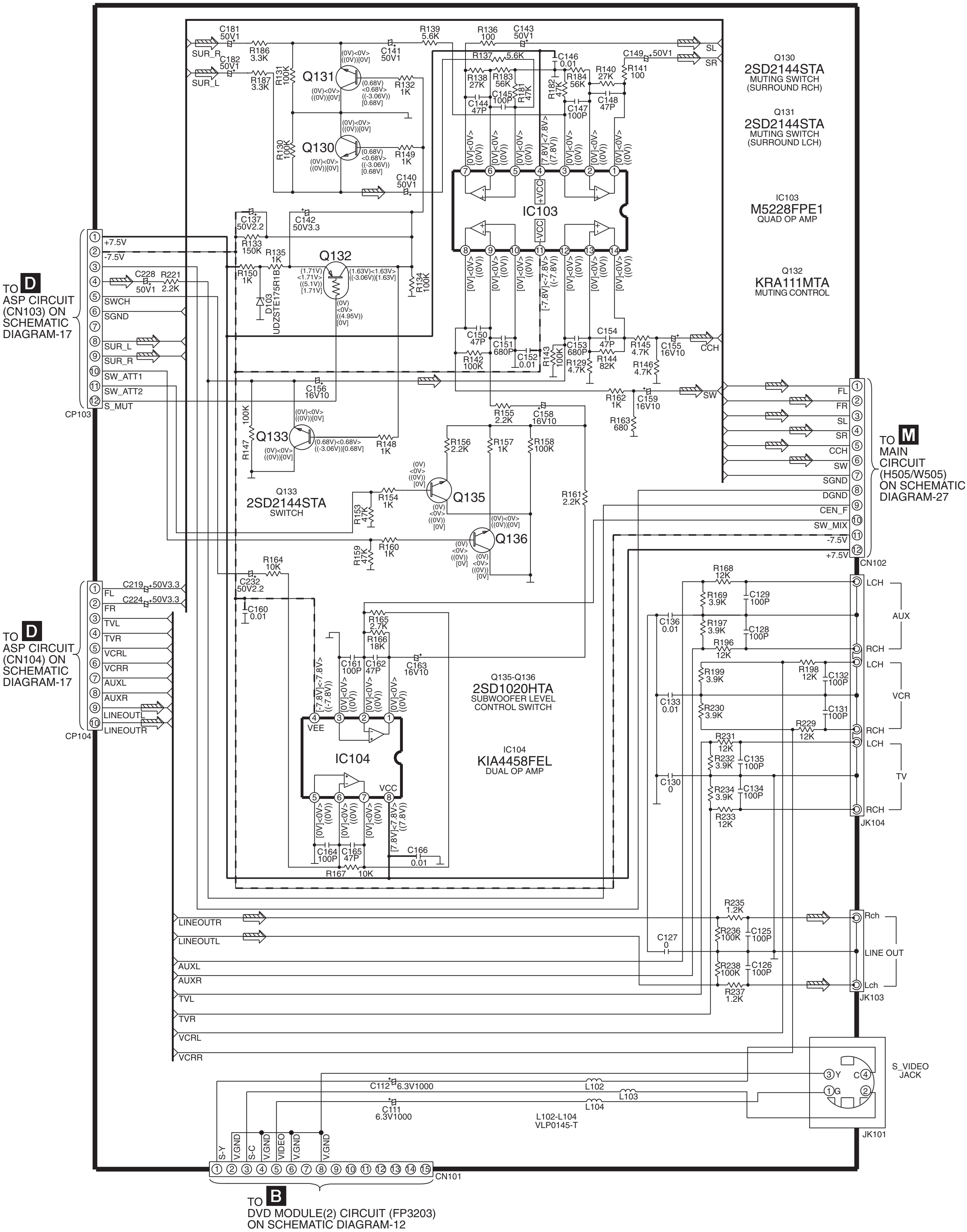
TO **C** INPUT CIRCUIT (CP104) ON SCHEMATIC DIAGRAM-16

TO **C** INPUT CIRCUIT (CP103) ON SCHEMATIC DIAGRAM-16

SCHEMATIC DIAGRAM - 16

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇒ : MAIN SIGNAL LINE

C INPUT CIRCUIT



Q130
2SD2144STA
MUTING SWITCH
(SURROUND RCH)
Q131
2SD2144STA
MUTING SWITCH
(SURROUND LCH)
IC103
M5228FPE1
QUAD OP AMP
Q132
KRA111MTA
MUTING CONTROL
Q133
2SD2144STA
SWITCH
Q135-Q136
2SD1020HTA
SUBWOOFER LEVEL
CONTROL SWITCH
IC104
KIA4458FEL
DUAL OP AMP
L102-L104
VLP0145-T
TO D ASP CIRCUIT (CN103) ON SCHEMATIC DIAGRAM-17
CP103
+7.5V
-7.5V
SWCH
SGND
SUR_L
SUR_R
SW_ATT1
SW_ATT2
S_MUT
TO D ASP CIRCUIT (CN104) ON SCHEMATIC DIAGRAM-17
CP104
FL
FR
TVL
TVR
VCRL
VCRR
AUXL
AUXR
LINEOUTL
LINEOUTR
TO M MAIN CIRCUIT (H505/W505) ON SCHEMATIC DIAGRAM-27
CN102
FL
FR
SL
SR
CCH
SW
SGND
DGND
CEN_F
SW_MIX
-7.5V
+7.5V
SL
SR
CCH
SW
AUX
VCR
TV
LCH
RCH
JK104
LINE OUT
Rch
Lch
JK103
S_VIDEO JACK
JK101
Y
C
G
TO B DVD MODULE(2) CIRCUIT (FP3203) ON SCHEMATIC DIAGRAM-12
CN101
S-Y
V.GND
S-C
V.GND
VIDEO
V.GND
V.GND
SUR_R
SUR_L
C181 50V1
C182 50V1
R186 3.3K
R187 3.3K
R131 100K
R130 100K
Q131
Q130
R132 1K
R149 1K
C141 50V1
C140 50V1
R139 5.6K
R136 100
C143 50V1
R137 5.6K
C146 0.01
R138 27K
R183 56K
R181 47K
C144 47P
C145 100P
R182 47K
R184 56K
R140 27K
R141 100
C149 50V1
C147 100P
C148 47P
IC103
+VCC
-VCC
C137 50V2.2
C142 50V3.3
R133 150K
R135 1K
R150 1K
D103 UDZSTE175R1B
Q132
R134 100K
C228 50V1
R221 2.2K
C150 47P
C151 680P
C152 0.01
R142 100K
R143 100K
C153 680P
R129 4.7K
C154 47P
R144 82K
R145 4.7K
C155 16V10
R146 4.7K
CCH
C156 16V10
R162 1K
C159 16V10
R163 680
R147 100K
Q133
R148 1K
R155 2.2K
C158 16V10
R156 2.2K
R157 1K
R158 100K
Q135
R154 1K
R153 47K
R161 2.2K
Q136
R160 1K
R159 47K
R164 10K
C232 50V2.2
C160 0.01
C219 50V3.3
C224 50V3.3
R165 2.7K
R166 18K
C161 100P
C162 47P
C163 16V10
IC104
VEE
VCC
C164 100P
C165 47P
C166 0.01
R167 10K
R168 12K
R169 3.9K
C129 100P
C136 0.01
R197 3.9K
C128 100P
R196 12K
R199 3.9K
R198 12K
C132 100P
C133 0.01
R230 3.9K
C131 100P
R229 12K
R231 12K
R232 3.9K
C135 100P
C130 0
R234 3.9K
C134 100P
R233 12K
R235 1.2K
R236 100K
C125 100P
C127 0
R238 100K
C126 100P
R237 1.2K
LINEOUTR
LINEOUTL
AUXL
AUXR
TVL
TVR
VCRL
VCRR
C112 6.3V1000
C111 6.3V1000
L102
L103
L104

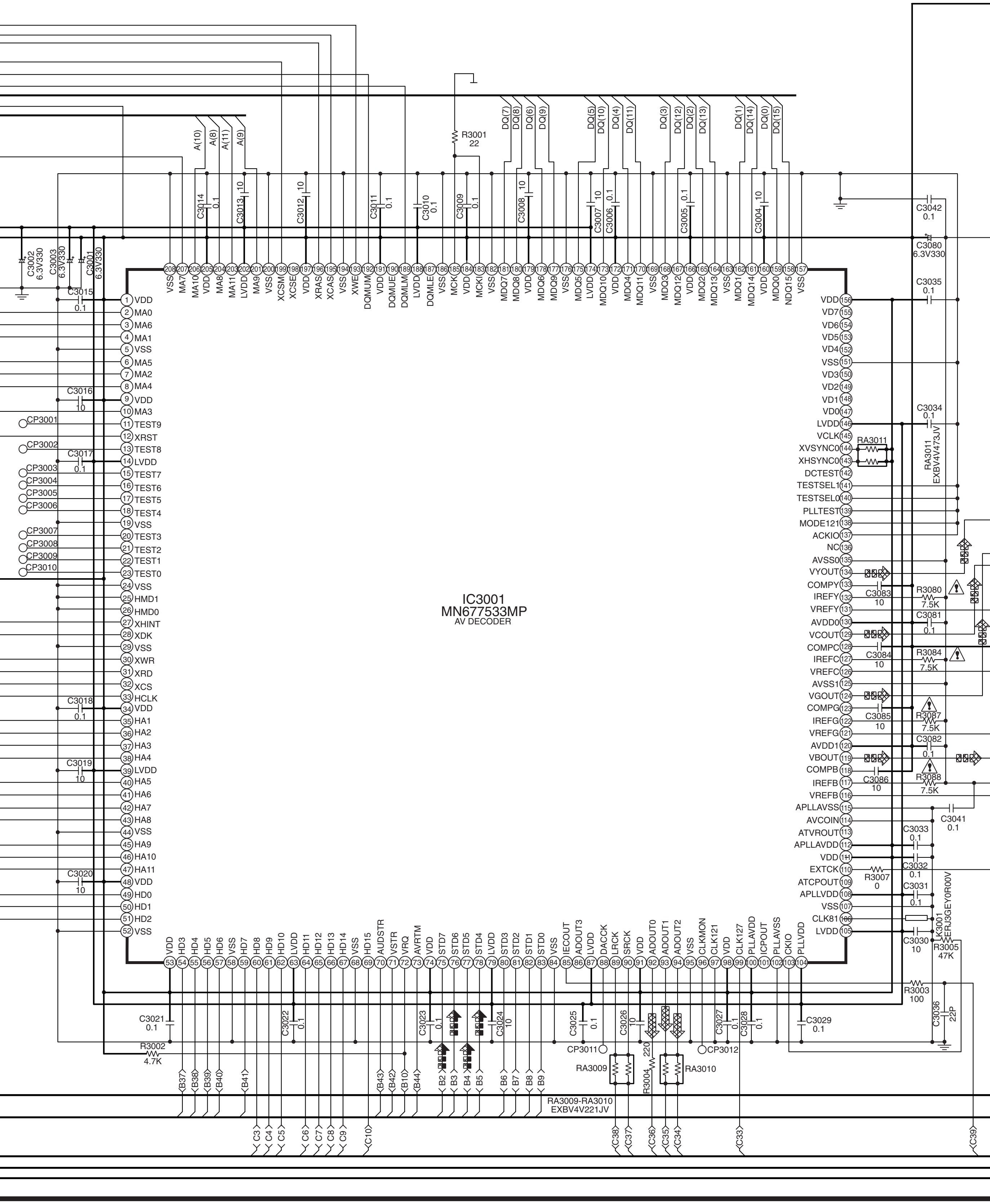
B DVD MODULE(2) CIRCUIT

—— : +B SIGNAL LINE

▨⇨ : CD/DVD (AUDIO) SIGNAL LINE

▨⇨ : DVD (AUDIO/VIDEO) SIGNAL LINE

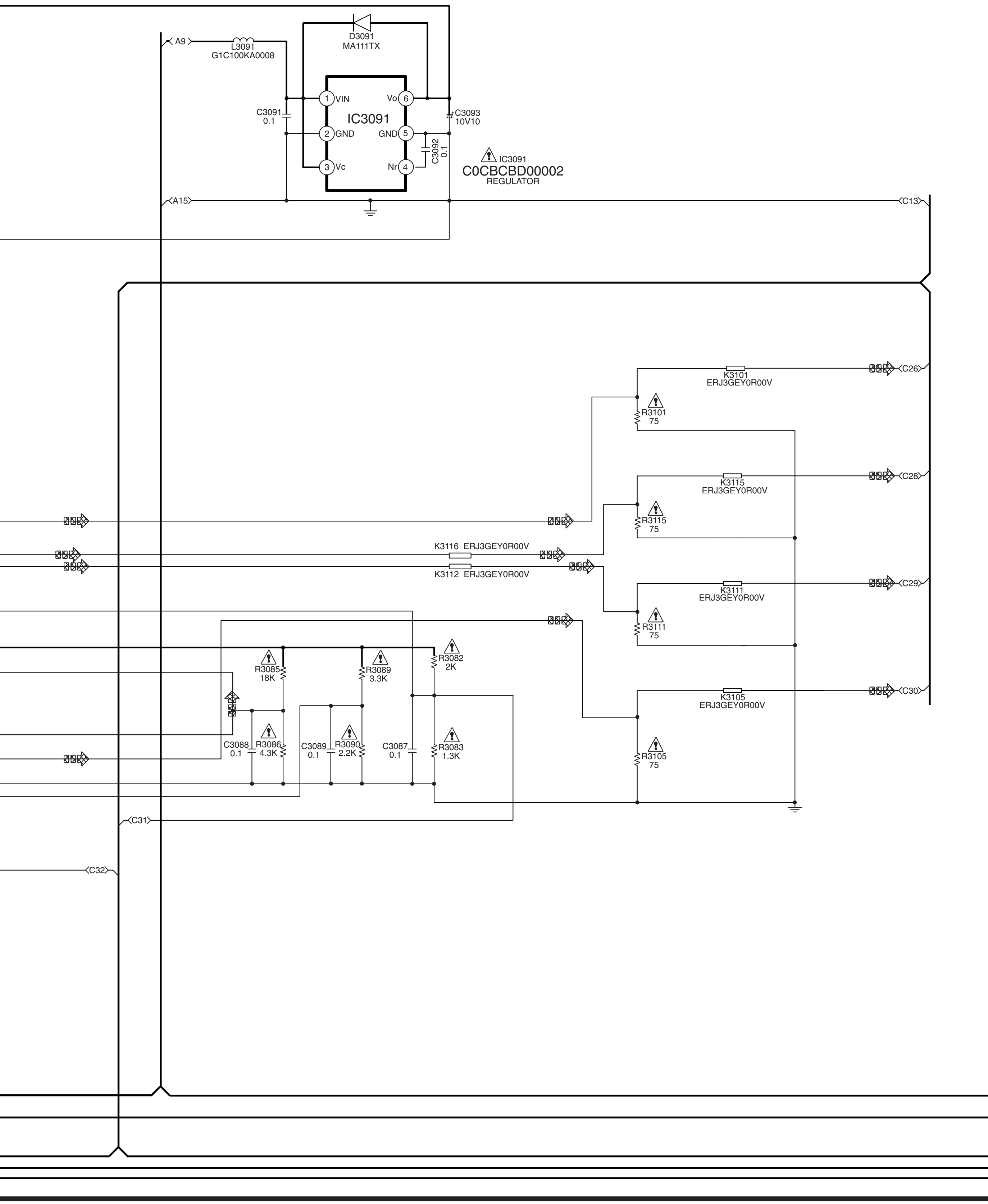
▨⇨ : DVD (VIDEO) SIGNAL LINE


IC3001
MN677533MP
AV DECODER
R3001 22
A(10)
A(8)
A(11)
A(9)
DQ(7)
DQ(8)
DQ(6)
DQ(9)
DQ(5)
DQ(10)
DQ(4)
DQ(11)
DQ(3)
DQ(12)
DQ(2)
DQ(13)
DQ(1)
DQ(14)
DQ(0)
DQ(15)
C3014 0.1
C3013 10
C3012 10
C3011 0.1
C3010 0.1
C3009 0.1
C3008 10
C3007 10
C3006 0.1
C3005 0.1
C3004 10
C3042 0.1
C3080 6.3V330
C3002 6.3V330
C3003 6.3V330
C3001 6.3V330
C3015 0.1
C3016 10
C3017 0.1
C3018 0.1
C3019 10
C3020 10
C3035 0.1
C3034 0.1
RA3011
RA3011 EXBV4V473JV
CP3001
CP3002
CP3003
CP3004
CP3005
CP3006
CP3007
CP3008
CP3009
CP3010
1 VDD
2 MA0
3 MA6
4 MA1
5 VSS
6 MA5
7 MA2
8 MA4
9 VDD
10 MA3
11 TEST9
12 XRST
13 TEST8
14 LVDD
15 TEST7
16 TEST6
17 TEST5
18 TEST4
19 VSS
20 TEST3
21 TEST2
22 TEST1
23 TEST0
24 VSS
25 HMD1
26 HMD0
27 XHINT
28 XDK
29 VSS
30 XWR
31 XRD
32 XCS
33 HCLK
34 VDD
35 HA1
36 HA2
37 HA3
38 HA4
39 LVDD
40 HA5
41 HA6
42 HA7
43 HA8
44 VSS
45 HA9
46 HA10
47 HA11
48 VDD
49 HD0
50 HD1
51 HD2
52 VSS
53 VDD
54 HD3
55 HD4
56 HD5
57 HD6
58 VSS
59 HD7
60 HD8
61 HD9
62 HD10
63 LVDD
64 HD11
65 HD12
66 HD13
67 HD14
68 VSS
69 HD15
70 AUDSTR
71 VSTR
72 VRQ
73 AVRTM
74 VDD
75 STD7
76 STD6
77 STD5
78 STD4
79 LVDD
80 STD3
81 STD2
82 STD1
83 STD0
84 VSS
85 IECOUT
86 ADOUT3
87 LVDD
88 DACCK
89 LRCK
90 SRCK
91 VDD
92 ADOUT0
93 ADOUT1
94 ADOUT2
95 VSS
96 CLKMON
97 CLK121
98 VDD
99 CLK127
100 PLLAVDD
101 ICPOUT
102 PLLAVSS
103 CKIO
104 PLLVDD
105 LVDD
106 CLK81
107 VSS
108 APLLVDD
109 ATCPOUT
110 EXTCK
111 VDD
112 APLLAVDD
113 ATVROUT
114 AVCOIN
115 APLLAVSS
116 VREFB
117 IREFB
118 COMPB
119 VBOUT
120 AVDD1
121 VREFG
122 IREFG
123 COMPG
124 VGOUT
125 AVSS1
126 VREFC
127 IREFC
128 COMPC
129 VCOUT
130 AVDD0
131 VREFY
132 IREFY
133 COMPY
134 VYOUT
135 AVSS0
136 NC
137 ACKIO
138 MODE121
139 PLLTEST
140 TESTSEL0
141 TESTSEL1
142 DCTEST
143 XHSYNC0
144 XVSYNC0
145 VCLK
146 LVDD
147 VD0
148 VD1
149 VD2
150 VD3
151 VSS
152 VD4
153 VD5
154 VD6
155 VD7
156 VDD
157 VSS
158 NDQ15
159 MDQ0
160 VDD
161 MDQ14
162 MDQ1
163 VSS
164 MDQ13
165 MDQ2
166 VDD
167 MDQ12
168 MDQ3
169 VSS
170 MDQ11
171 MDQ4
172 VDD
173 MDQ10
174 LVDD
175 MDQ5
176 VSS
177 MDQ9
178 MDQ6
179 VDD
180 MDQ8
181 MDQ7
182 VSS
183 MCKI
184 VDD
185 MCK
186 VSS
187 DQMLE
188 LVDD
189 DQMLM
190 DQMUE
191 VDD
192 DQMUM
193 XWE
194 VSS
195 XCAS
196 XRAS
197 VDD
198 XCSE
199 XCSM
200 VSS
201 MA9
202 LVDD
203 MA11
204 MA8
205 VDD
206 MA10
207 MA7
208 VSS
C3083 10
C3084 10
C3085 10
C3086 10
R3080 7.5K
R3084 7.5K
R3087 7.5K
R3088 7.5K
C3081 0.1
C3082 0.1
C3041 0.1
C3033 0.1
C3032 0.1
C3031 0.1
C3030 10
R3007 0
K3001 ERJ3GEY0R00V
R3005 47K
R3003 100
C3036 22P
C3021 0.1
C3022 0.1
C3023 0.1
C3024 10
C3025 0.1
C3026 10
C3027 0.1
C3028 0.1
C3029 0.1
R3002 4.7K
CP3011
CP3012
RA3009
RA3010
R3004 220
RA3009-RA3010 EXBV4V221JV
B37
B38
B39
B40
B41
B43
B42
B10
B44
B2
B3
B4
B5
B6
B7
B8
B9
C3
C4
C5
C6
C7
C8
C9
C10
C38
C37
C36
C35
C34
C33
C39

B DVD MODULE(2) CIRCUIT

: +B SIGNAL LINE

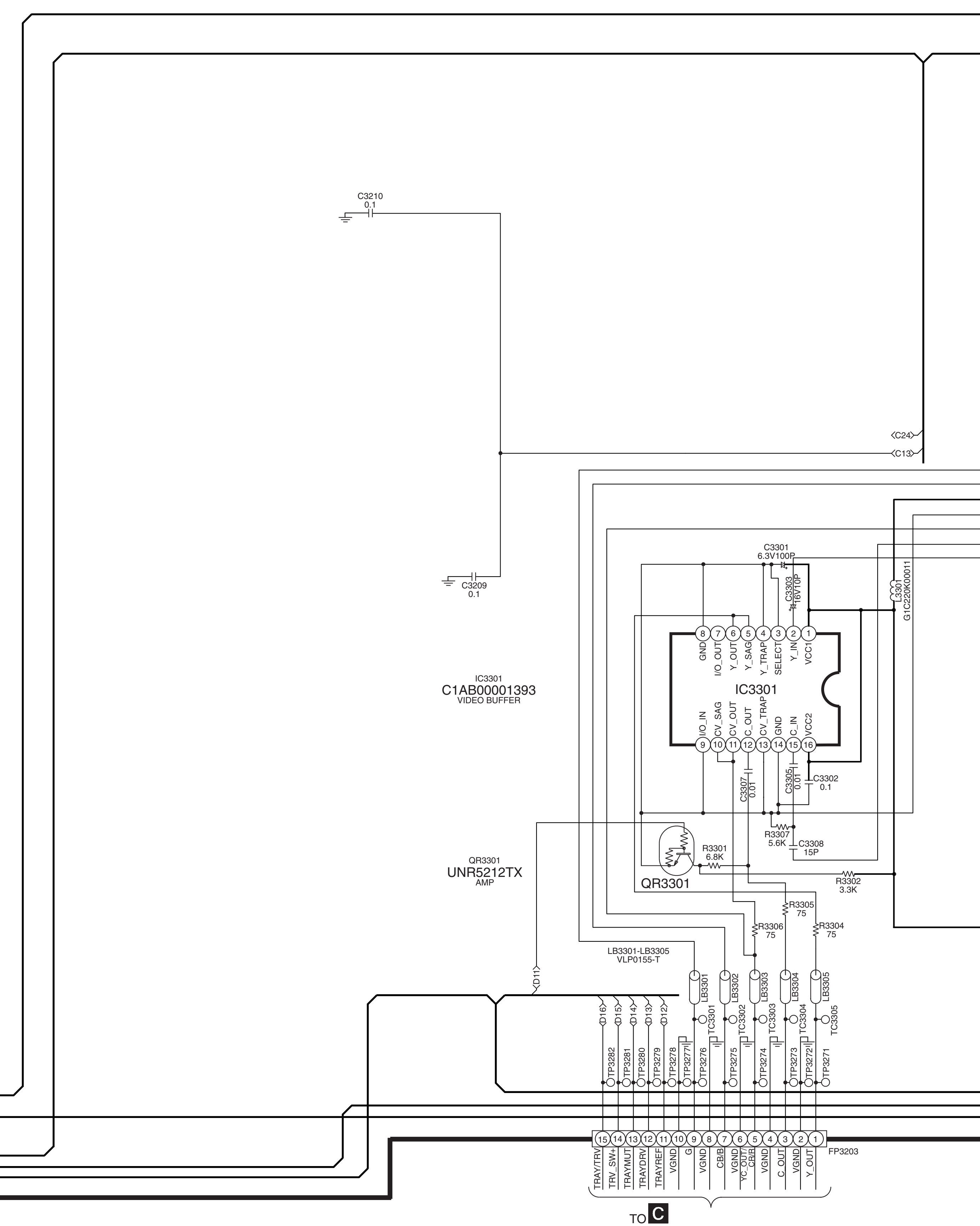
: DVD (VIDEO) SIGNAL LINE


A9
L3091
G1C100KA0008
D3091
MA111TX
IC3091
1 VIN
2 GND
3 Vc
Vo 6
GND 5
Nr 4
C3091
0.1
C3093
10V10
C3092
0.1
IC3091
C0CBCBD00002
REGULATOR
A15
C13
K3101
ERJ3GEY0R00V
C26
R3101
75
K3115
ERJ3GEY0R00V
C28
R3115
75
K3116 ERJ3GEY0R00V
K3112 ERJ3GEY0R00V
K3111
ERJ3GEY0R00V
C29
R3111
75
R3085
18K
R3089
3.3K
R3082
2K
C3088
0.1
R3086
4.3K
C3089
0.1
R3090
2.2K
C3087
0.1
R3083
1.3K
K3105
ERJ3GEY0R00V
C30
R3105
75
C31
C32

SCHEMATIC DIAGRAM - 12

B DVD MODULE(2) CIRCUIT

: +B SIGNAL LINE

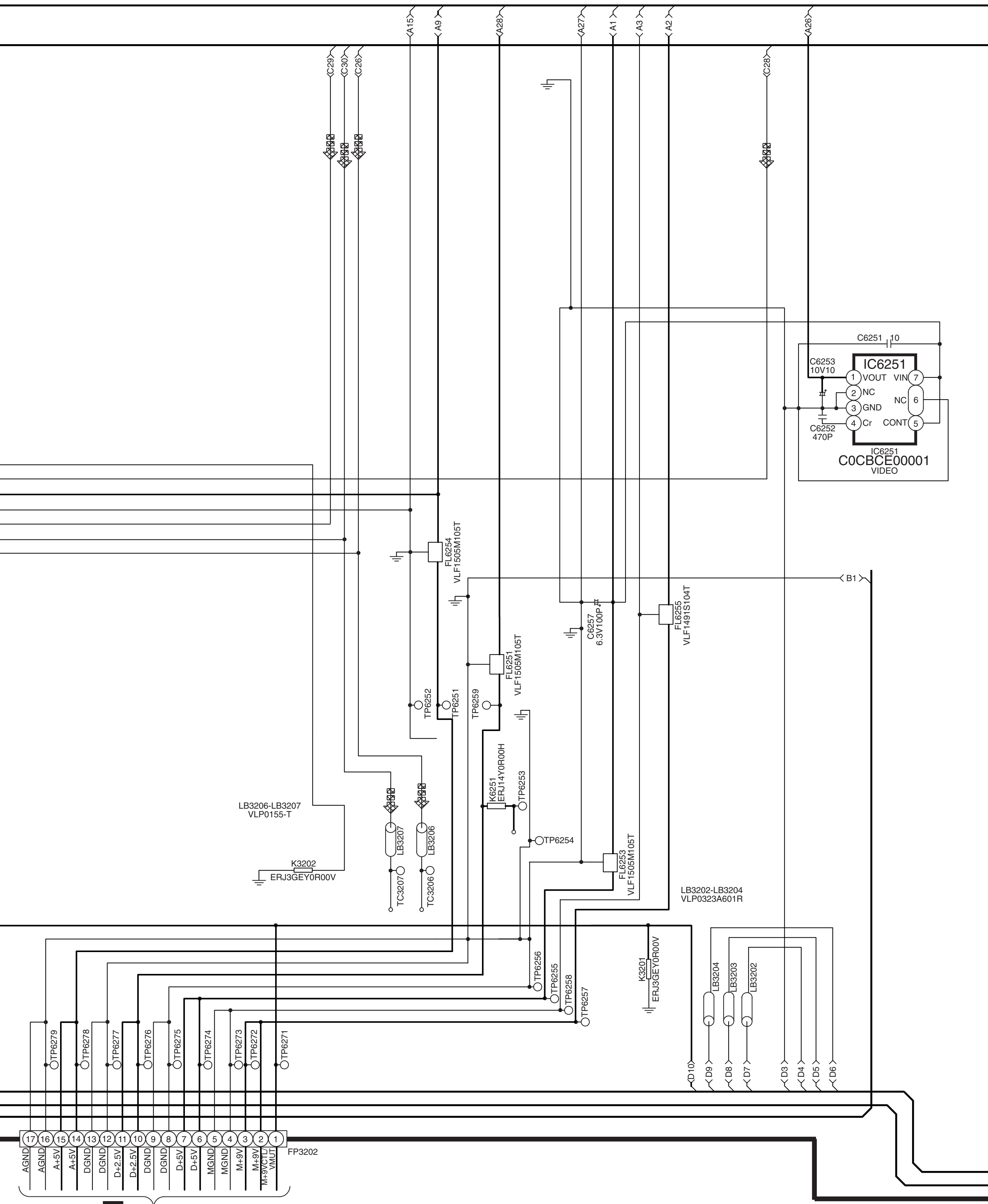

C3210
0.1
C3209
0.1
C24
C13
IC3301
C1AB00001393
VIDEO BUFFER
C3301
6.3V100P
C3303
16V10P
L3301
G1C220K00011
IC3301
GND
I/O_OUT
Y_OUT
Y_SAG
Y_TRAP
SELECT
Y_IN
VCC1
I/O_IN
CV_SAG
CV_OUT
C_OUT
CV_TRAP
GND
C_IN
VCC2
C3307
0.01
C3305
0.01
C3302
0.1
R3307
5.6K
C3308
15P
QR3301
UNR5212TX
AMP
QR3301
R3301
6.8K
R3302
3.3K
R3305
75
R3306
75
R3304
75
LB3301-LB3305
VLP0155-T
D11
LB3301
LB3302
LB3303
LB3304
LB3305
D16
D15
D14
D13
D12
TC3301
TC3302
TC3303
TC3304
TC3305
TP3282
TP3281
TP3280
TP3279
TP3278
TP3277
TP3276
TP3275
TP3274
TP3273
TP3272
TP3271
FP3203
TRAY/TRV
TRV_SW+
TRAYMUT
TRAYDRV
TRAYREF
VGND
G
VGND
CB/B
VGND
YC_OUT/CR/R
VGND
C_OUT
VGND
Y_OUT

TO C
INPUT CIRCUIT (CN101) ON
SCHEMATIC DIAGRAM-16

SCHEMATIC DIAGRAM - 13

B DVD MODULE(2) CIRCUIT

——— : +B SIGNAL LINE   ▨▨▨⇨ : DVD (VIDEO) SIGNAL LINE


A15
A9
A28
A27
A1
A3
A2
A26
C29
C30
C26
C28
C6251 10
C6253
10V10
IC6251
1 VOUT
VIN 7
2 NC
NC 6
3 GND
4 Cr
CONT 5
C6252
470P
IC6251
C0CBCE00001
VIDEO
FL6254
VLF1505M105T
B1
FL6255
VLF1491S104T
C6257
6.3V100P
FL6251
VLF1505M105T
TP6252
TP6251
TP6259
K6251
ERJ14Y0R00H
TP6253
TP6254
LB3206-LB3207
VLP0155-T
LB3207
LB3206
K3202
ERJ3GEY0R00V
TC3207
TC3206
FL6253
VLF1505M105T
LB3202-LB3204
VLP0323A601R
TP6256
TP6255
TP6258
TP6257
K3201
ERJ3GEY0R00V
LB3204
LB3203
LB3202
TP6279
TP6278
TP6277
TP6276
TP6275
TP6274
TP6273
TP6272
TP6271
D10
D9
D8
D7
D3
D4
D5
D6
17 AGND
16 AGND
15 A+5V
14 A+5V
13 DGND
12 DGND
11 D+2.5V
10 D+2.5V
9 DGND
8 DGND
7 D+5V
6 D+5V
5 MGND
4 MGND
3 M+9V
2 M+9V
1 M+9VCTL/VMUT
FP3202

TO **F**
DVDREG CIRCUIT (CP6251) ON
SCHEMATIC DIAGRAM-21

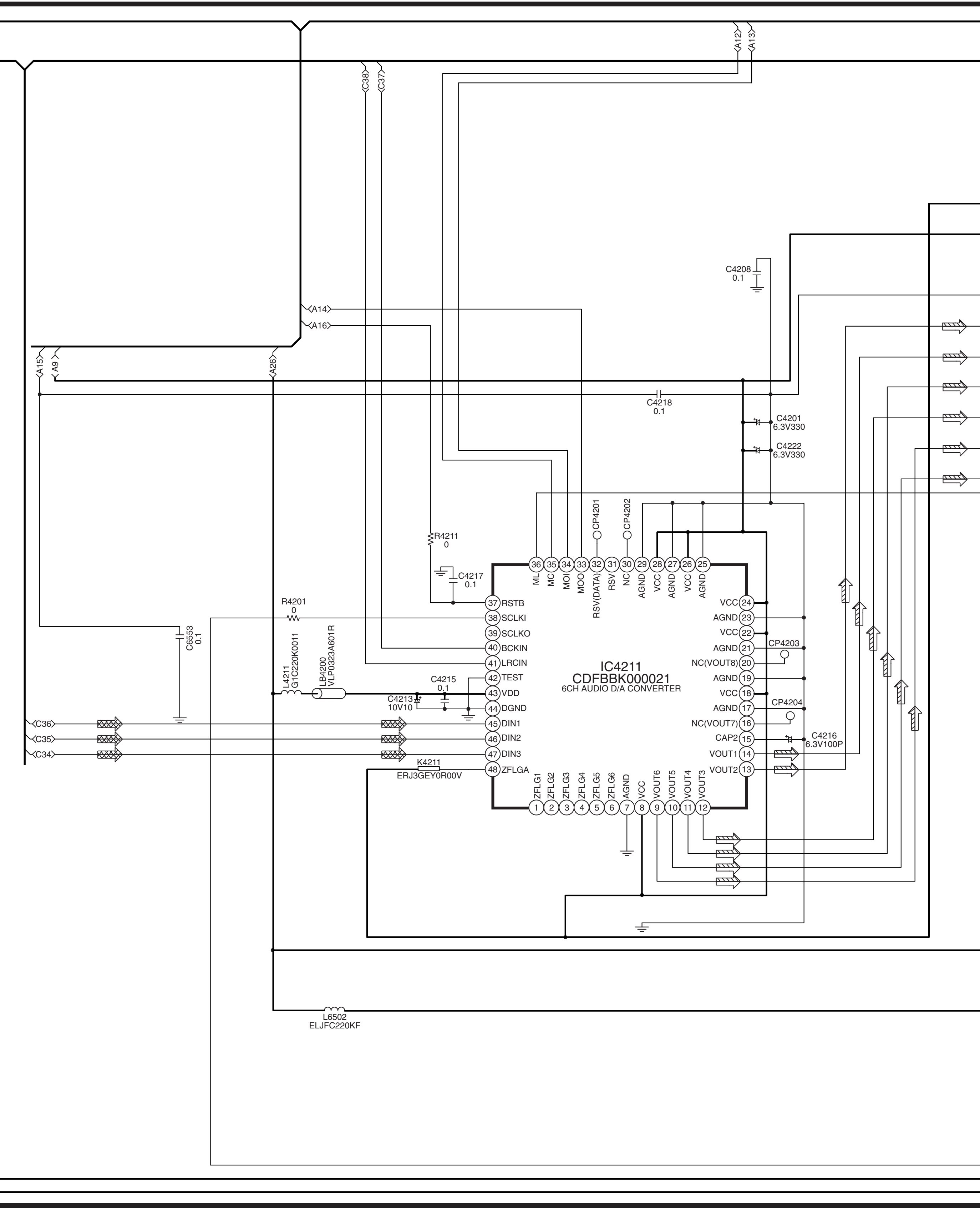
SCHEMATIC DIAGRAM - 14

B DVD MODULE(2) CIRCUIT

: +B SIGNAL LINE

▨ : CD/DVD (AUDIO) SIGNAL LINE

⇨ : MAIN SIGNAL LINE

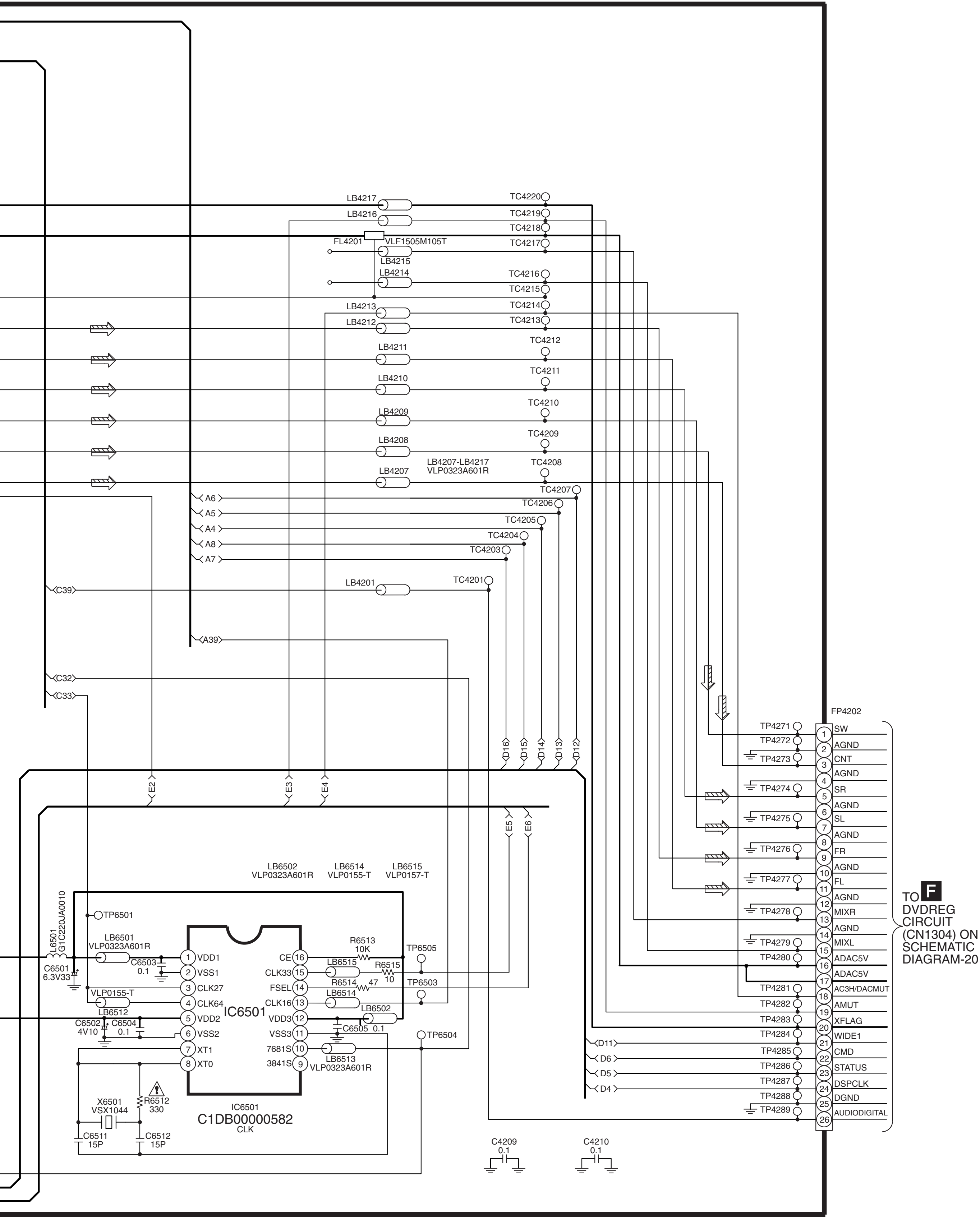

A12
A13
C38
C37
A14
A16
A15
A9
A26
C4208
0.1
C4218
0.1
C4201
6.3V330
C4222
6.3V330
CP4201
CP4202
R4211
0
C4217
0.1
R4201
0
C6553
0.1
L4211
G1C220K0011
LB4200
VLP0323A601R
C4215
0.1
C4213
10V10
C36
C35
C34
K4211
ERJ3GEY0R00V
36 ML
35 MC
34 MOI
33 MOO
32 RSV(DATA)
31 RSV
30 NC
29 AGND
28 VCC
27 AGND
26 VCC
25 AGND
37 RSTB
38 SCLKI
39 SCLKO
40 BCKIN
41 LRCIN
42 TEST
43 VDD
44 DGND
45 DIN1
46 DIN2
47 DIN3
48 ZFLGA
24 VCC
23 AGND
22 VCC
21 AGND
20 NC(VOUT8)
19 AGND
18 VCC
17 AGND
16 NC(VOUT7)
15 CAP2
14 VOUT1
13 VOUT2
1 ZFLG1
2 ZFLG2
3 ZFLG3
4 ZFLG4
5 ZFLG5
6 ZFLG6
7 AGND
8 VCC
9 VOUT6
10 VOUT5
11 VOUT4
12 VOUT3
IC4211
CDFBBK000021
6CH AUDIO D/A CONVERTER
CP4203
CP4204
C4216
6.3V100P
L6502
ELJFC220KF

SCHEMATIC DIAGRAM - 15

B DVD MODULE(2) CIRCUIT

: +B SIGNAL LINE

: MAIN SIGNAL LINE

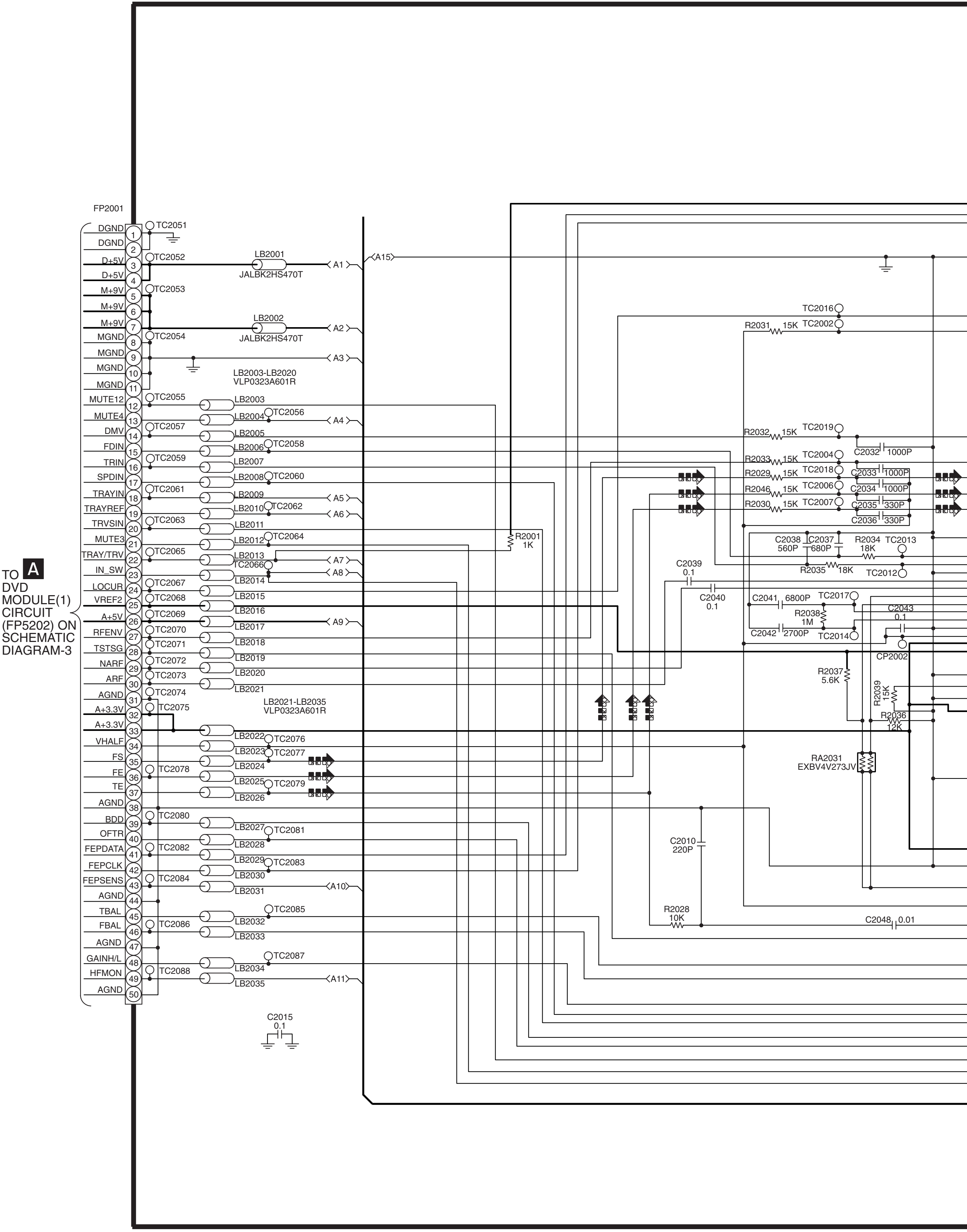

LB4217
LB4216
FL4201
VLF1505M105T
LB4215
LB4214
LB4213
LB4212
LB4211
LB4210
LB4209
LB4208
LB4207
LB4207-LB4217
VLP0323A601R
LB4201
TC4220
TC4219
TC4218
TC4217
TC4216
TC4215
TC4214
TC4213
TC4212
TC4211
TC4210
TC4209
TC4208
TC4207
TC4206
TC4205
TC4204
TC4203
TC4201
A6
A5
A4
A8
A7
C39
A39
C32
C33
D16
D15
D14
D13
D12
E2
E3
E4
E5
E6
D11
D6
D5
D4
FP4202
TP4271
TP4272
TP4273
TP4274
TP4275
TP4276
TP4277
TP4278
TP4279
TP4280
TP4281
TP4282
TP4283
TP4284
TP4285
TP4286
TP4287
TP4288
TP4289
1 SW
2 AGND
3 CNT
4 AGND
5 SR
6 AGND
7 SL
8 AGND
9 FR
10 AGND
11 FL
12 AGND
13 MIXR
14 AGND
15 MIXL
16 ADAC5V
17 ADAC5V
18 AC3H/DACMUT
19 AMUT
20 XFLAG
21 WIDE1
22 CMD
23 STATUS
24 DSPCLK
25 DGND
26 AUDIODIGITAL
TO F DVDREG CIRCUIT (CN1304) ON SCHEMATIC DIAGRAM-20
LB6502
VLP0323A601R
LB6514
VLP0155-T
LB6515
VLP0157-T
TP6501
L6501
G1C220JA0010
LB6501
VLP0323A601R
C6501
6.3V33
C6503
0.1
VLP0155-T
LB6512
C6502
4V10
C6504
0.1
1 VDD1
2 VSS1
3 CLK27
4 CLK64
5 VDD2
6 VSS2
7 XT1
8 XT0
CE 16
CLK33 15
FSEL 14
CLK16 13
VDD3 12
VSS3 11
7681S 10
3841S 9
IC6501
R6513
10K
R6515
10
R6514
47
LB6515
LB6514
LB6502
LB6513
VLP0323A601R
C6505 0.1
TP6505
TP6503
TP6504
X6501
VSX1044
R6512
330
C6511
15P
C6512
15P
IC6501
C1DB00000582
CLK
C4209
0.1
C4210
0.1

SCHEMATIC DIAGRAM - 4

B DVD MODULE(2) CIRCUIT

—— : +B SIGNAL LINE

▶▶▶ : DVD (AUDIO/VIDEO) SIGNAL LINE

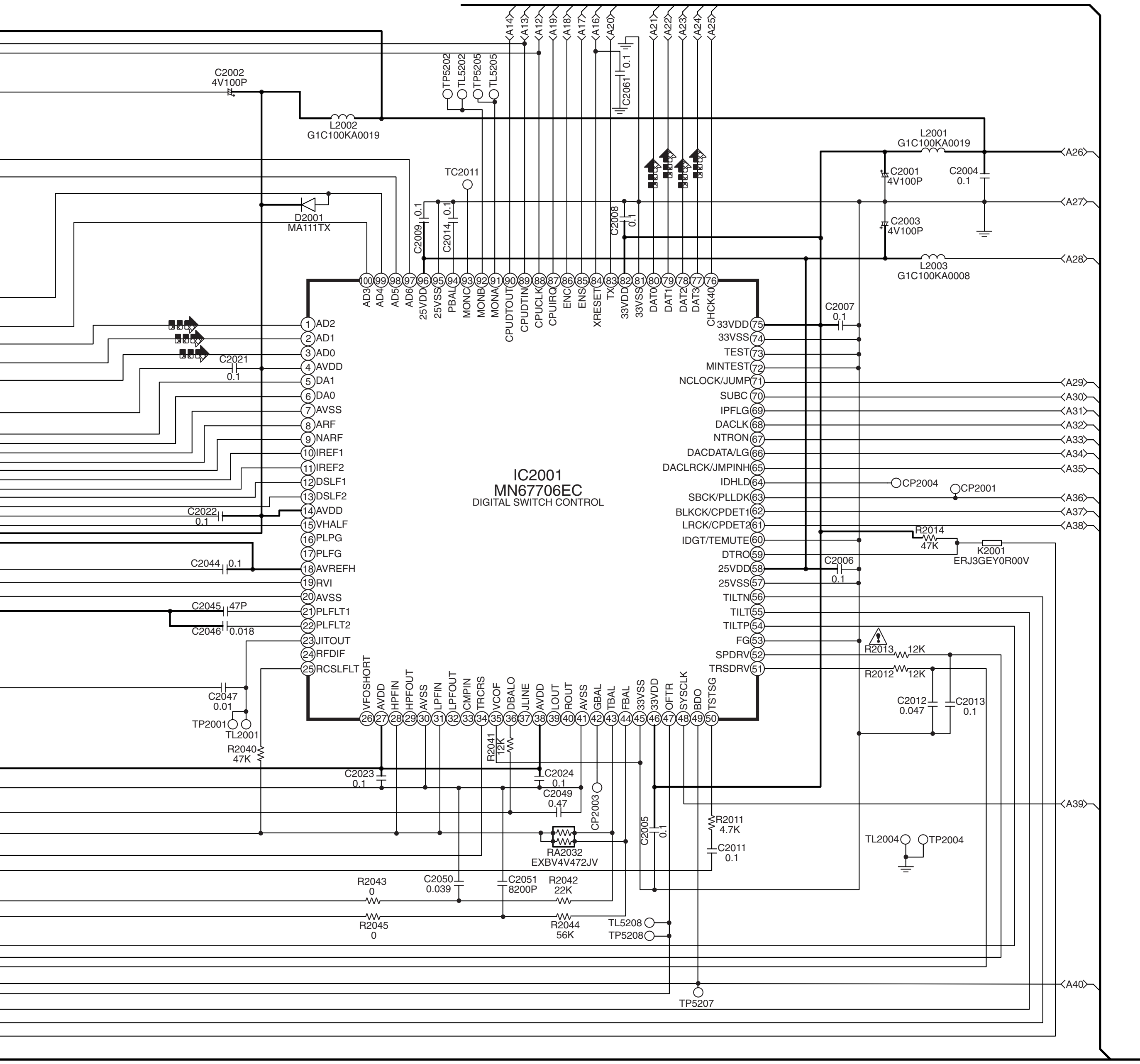

TO A DVD MODULE(1) CIRCUIT (FP5202) ON SCHEMATIC DIAGRAM-3
FP2001
DGND 1
DGND 2
D+5V 3
D+5V 4
M+9V 5
M+9V 6
M+9V 7
MGND 8
MGND 9
MGND 10
MGND 11
MUTE12 12
MUTE4 13
DMV 14
FDIN 15
TRIN 16
SPDIN 17
TRAYIN 18
TRAYREF 19
TRVSIN 20
MUTE3 21
TRAY/TRV 22
IN_SW 23
LOCUR 24
VREF2 25
A+5V 26
RFENV 27
TSTSG 28
NARF 29
ARF 30
AGND 31
A+3.3V 32
A+3.3V 33
VHALF 34
FS 35
FE 36
TE 37
AGND 38
BDD 39
OFTR 40
FEPDATA 41
FEPCLK 42
FEPSENS 43
AGND 44
TBAL 45
FBAL 46
AGND 47
GAINH/L 48
HFMON 49
AGND 50
TC2051
TC2052
TC2053
TC2054
TC2055
TC2056
TC2057
TC2058
TC2059
TC2060
TC2061
TC2062
TC2063
TC2064
TC2065
TC2066
TC2067
TC2068
TC2069
TC2070
TC2071
TC2072
TC2073
TC2074
TC2075
TC2076
TC2077
TC2078
TC2079
TC2080
TC2081
TC2082
TC2083
TC2084
TC2085
TC2086
TC2087
TC2088
LB2001
JALBK2HS470T
LB2002
JALBK2HS470T
LB2003-LB2020
VLP0323A601R
LB2003
LB2004
LB2005
LB2006
LB2007
LB2008
LB2009
LB2010
LB2011
LB2012
LB2013
LB2014
LB2015
LB2016
LB2017
LB2018
LB2019
LB2020
LB2021
LB2021-LB2035
VLP0323A601R
LB2022
LB2023
LB2024
LB2025
LB2026
LB2027
LB2028
LB2029
LB2030
LB2031
LB2032
LB2033
LB2034
LB2035
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A15
C2015
0.1
R2001
1K
TC2016
TC2002
R2031 15K
R2032 15K
TC2019
C2032 1000P
R2033 15K
TC2004
R2029 15K
TC2018
C2033 1000P
R2046 15K
TC2006
C2034 1000P
R2030 15K
TC2007
C2035 330P
C2036 330P
C2038 560P
C2037 680P
R2034 18K
TC2013
R2035 18K
TC2012
C2039 0.1
C2040 0.1
C2041 6800P
TC2017
R2038 1M
C2042 2700P
TC2014
C2043 0.1
CP2002
R2037 5.6K
R2039 15K
R2036 12K
RA2031
EXBV4V273JV
C2010 220P
R2028 10K
C2048 0.01

SCHEMATIC DIAGRAM - 5

B DVD MODULE(2) CIRCUIT

——— : +B SIGNAL LINE

➡ : DVD (AUDIO/VIDEO) SIGNAL LINE

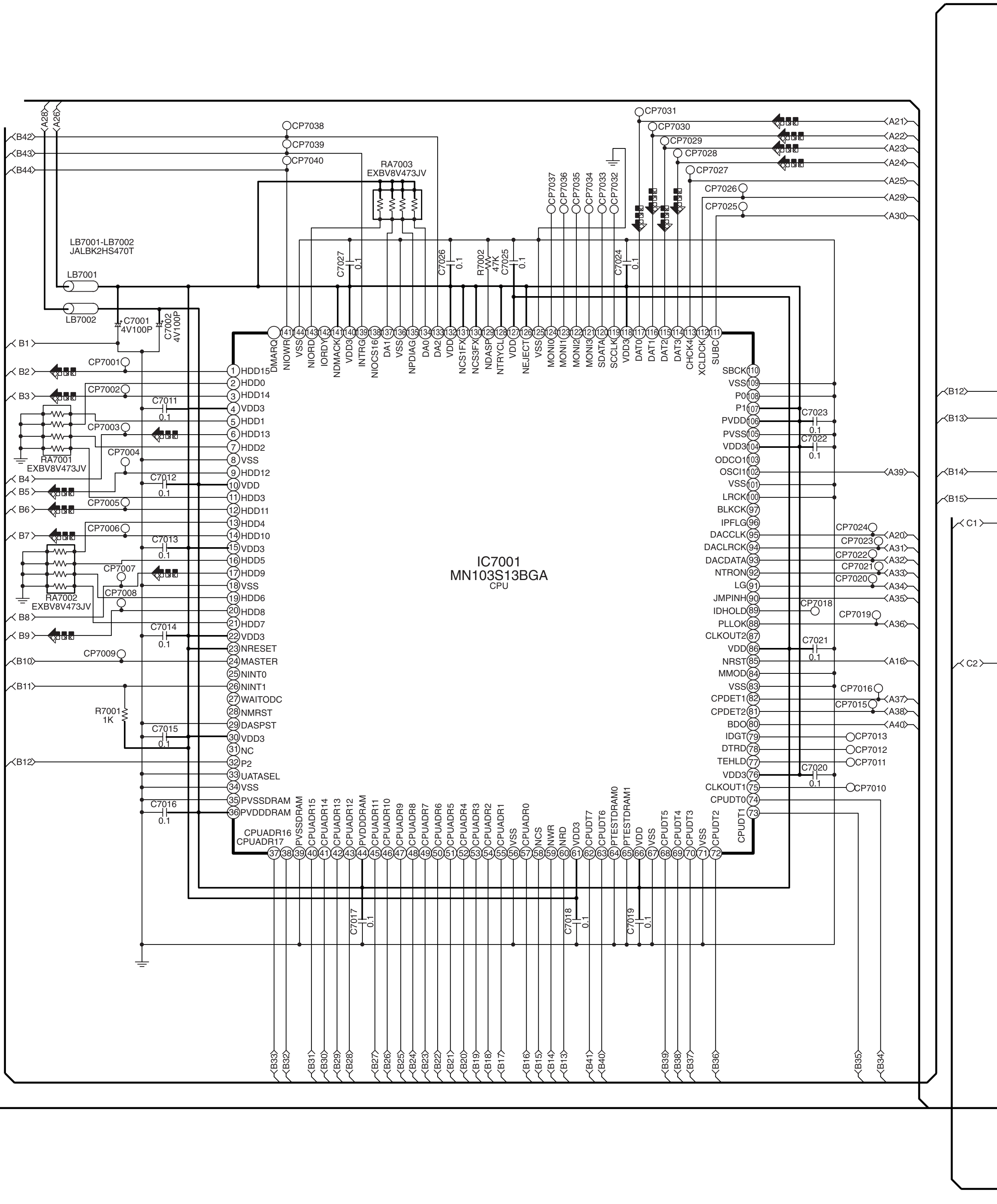

IC2001
MN67706EC
DIGITAL SWITCH CONTROL
1 AD2
2 AD1
3 AD0
4 AVDD
5 DA1
6 DA0
7 AVSS
8 ARF
9 NARF
10 IREF1
11 IREF2
12 DSLF1
13 DSLF2
14 AVDD
15 VHALF
16 PLPG
17 PLFG
18 AVREFH
19 RVI
20 AVSS
21 PLFLT1
22 PLFLT2
23 JITOUT
24 RFDIF
25 RCSLFLT
26 VFOSHORT
27 AVDD
28 HPFIN
29 HPFOUT
30 AVSS
31 LPFIN
32 LPFOUT
33 CMPIN
34 TRCRS
35 VCOF
36 DBALO
37 JLINE
38 AVDD
39 LOUT
40 ROUT
41 AVSS
42 GBAL
43 TBAL
44 FBAL
45 33VSS
46 33VDD
47 OFTR
48 SYSCLK
49 BDO
50 TSTSG
51 TRSDRV
52 SPDRV
53 FG
54 TILTP
55 TILT
56 TILTN
57 25VSS
58 25VDD
59 DTRO
60 IDGT/TEMUTE
61 LRCK/CPDET2
62 BLKCK/CPDET1
63 SBCK/PLLDK
64 IDHLD
65 DACLRCK/JMPINH
66 DACDATA/LG
67 NTRON
68 DACLK
69 IPFLG
70 SUBC
71 NCLOCK/JUMP
72 MINTEST
73 TEST
74 33VSS
75 33VDD
76 CHCK40
77 DAT3
78 DAT2
79 DAT1
80 DAT0
81 33VSS
82 33VDD
83 TX
84 XRESET
85 ENS
86 ENC
87 CPUIRQ
88 CPUCLK
89 CPUDTIN
90 CPUDTOUT
91 MONA
92 MONB
93 MONC
94 PBAL
95 25VSS
96 25VDD
97 AD6
98 AD5
99 AD4
100 AD3
A14 A13 A12 A19 A18 A17 A16 A20 A21 A22 A23 A24 A25
A26 A27 A28 A29 A30 A31 A32 A33 A34 A35 A36 A37 A38 A39 A40
C2002 4V100P
L2002 G1C100KA0019
L2001 G1C100KA0019
L2003 G1C100KA0008
C2001 4V100P
C2003 4V100P
C2004 0.1
D2001 MA111TX
TP5202 TL5202 TP5205 TL5205
TC2011
C2061 0.1
C2009 0.1
C2014 0.1
C2008 0.1
C2007 0.1
C2006 0.1
C2021 0.1
C2022 0.1
C2044 0.1
C2045 47P
C2046 0.018
C2047 0.01
TP2001 TL2001
R2040 47K
CP2004 CP2001
R2014 47K
K2001 ERJ3GEY0R00V
R2013 12K
R2012 12K
C2012 0.047
C2013 0.1
R2041 12K
C2023 0.1
C2024 0.1
C2049 0.47
CP2003
C2005 0.1
R2011 4.7K
C2011 0.1
RA2032 EXBV4V472JV
TL2004 TP2004
R2043 0
C2050 0.039
C2051 8200P
R2042 22K
R2045 0
R2044 56K
TL5208 TP5208
TP5207

SCHEMATIC DIAGRAM - 6

B DVD MODULE(2) CIRCUIT

: +B SIGNAL LINE

: DVD (AUDIO/VIDEO) SIGNAL LINE

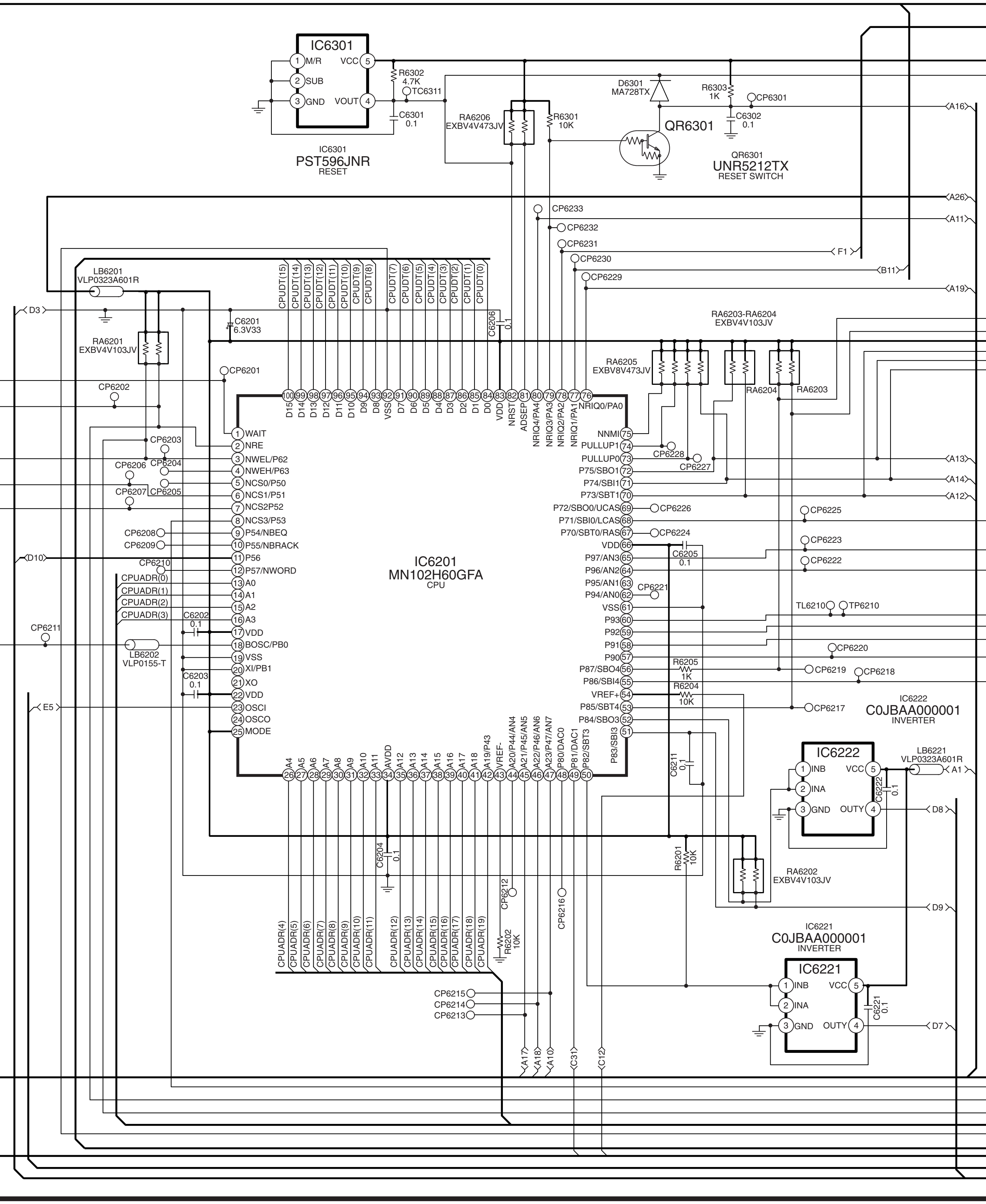


IC7001
MN103S13BGA
CPU
LB7001-LB7002
JALBK2HS470T
LB7001
LB7002
C7001
4V100P
C7002
4V100P
RA7001
EXBV8V473JV
RA7002
EXBV8V473JV
RA7003
EXBV8V473JV
R7001
1K
R7002
47K
C7011 0.1
C7012 0.1
C7013 0.1
C7014 0.1
C7015 0.1
C7016 0.1
C7017 0.1
C7018 0.1
C7019 0.1
C7020 0.1
C7021 0.1
C7022 0.1
C7023 0.1
C7024 0.1
C7025 0.1
C7026 0.1
C7027 0.1
CP7001
CP7002
CP7003
CP7004
CP7005
CP7006
CP7007
CP7008
CP7009
CP7010
CP7011
CP7012
CP7013
CP7015
CP7016
CP7018
CP7019
CP7020
CP7021
CP7022
CP7023
CP7024
CP7025
CP7026
CP7027
CP7028
CP7029
CP7030
CP7031
CP7032
CP7033
CP7034
CP7035
CP7036
CP7037
CP7038
CP7039
CP7040
1 HDD15
2 HDD0
3 HDD14
4 VDD3
5 HDD1
6 HDD13
7 HDD2
8 VSS
9 HDD12
10 VDD
11 HDD3
12 HDD11
13 HDD4
14 HDD10
15 VDD3
16 HDD5
17 HDD9
18 VSS
19 HDD6
20 HDD8
21 HDD7
22 VDD3
23 NRESET
24 MASTER
25 NINT0
26 NINT1
27 WAITODC
28 NMRST
29 DASPST
30 VDD3
31 NC
32 P2
33 UATASEL
34 VSS
35 PVSSDRAM
36 PVDDDRAM
37 CPUADR17
38 CPUADR16
39 PVSSDRAM
40 CPUADR15
41 CPUADR14
42 CPUADR13
43 CPUADR12
44 PVDDDRAM
45 CPUADR11
46 CPUADR10
47 CPUADR9
48 CPUADR8
49 CPUADR7
50 CPUADR6
51 CPUADR5
52 CPUADR4
53 CPUADR3
54 CPUADR2
55 CPUADR1
56 VSS
57 CPUADR0
58 NCS
59 NWR
60 NRD
61 VDD3
62 CPUDT7
63 CPUDT6
64 PTESTDRAM0
65 PTESTDRAM1
66 VDD
67 VSS
68 CPUDT5
69 CPUDT4
70 CPUDT3
71 VSS
72 CPUDT2
73 CPUDT1
74 CPUDT0
75 CLKOUT1
76 VDD3
77 TEHLD
78 DTRD
79 IDGT
80 BDO
81 CPDET2
82 CPDET1
83 VSS
84 MMOD
85 NRST
86 VDD
87 CLKOUT2
88 PLLOK
89 IDHOLD
90 JMPINH
91 LG
92 NTRON
93 DACDATA
94 DACLRCK
95 DACCLK
96 IPFLG
97 BLKCK
98 LRCK
99 VSS
100 OSCI1
101 ODCO1
102 VDD3
103 PVSS
104 PVDD
105 P1
106 P0
107 VSS
108 SBCK
109 SUBC
110 XCLDCK
111 CHCK4
112 DAT3
113 DAT2
114 DAT1
115 DAT0
116 VDD3
117 SCCLK
118 SDATA
119 MONI3
120 MONI2
121 MONI1
122 MONI0
123 VSS
124 NEJECT
125 VDD
126 NTRYCL
127 NDASP
128 NCS3FX
129 NCS1FX
130 VDD
131 DA2
132 DA0
133 NPDIAG
134 VSS
135 DA1
136 NIOCS16
137 INTRG
138 VDD3
139 NDMACK
140 IORDY
141 NIORD
142 VSS
143 NIOWR
144 DMARQ
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B42
B43
B44
A28
A26
A21
A22
A23
A24
A25
A29
A30
A39
A20
A31
A32
A33
A34
A35
A36
A16
A37
A38
A40
B12
B13
B14
B15
C1
C2
B33
B32
B31
B30
B29
B28
B27
B26
B25
B24
B23
B22
B21
B20
B19
B18
B17
B16
B15
B14
B13
B41
B40
B39
B38
B37
B36
B35
B34

SCHEMATIC DIAGRAM - 7

B DVD MODULE(2) CIRCUIT

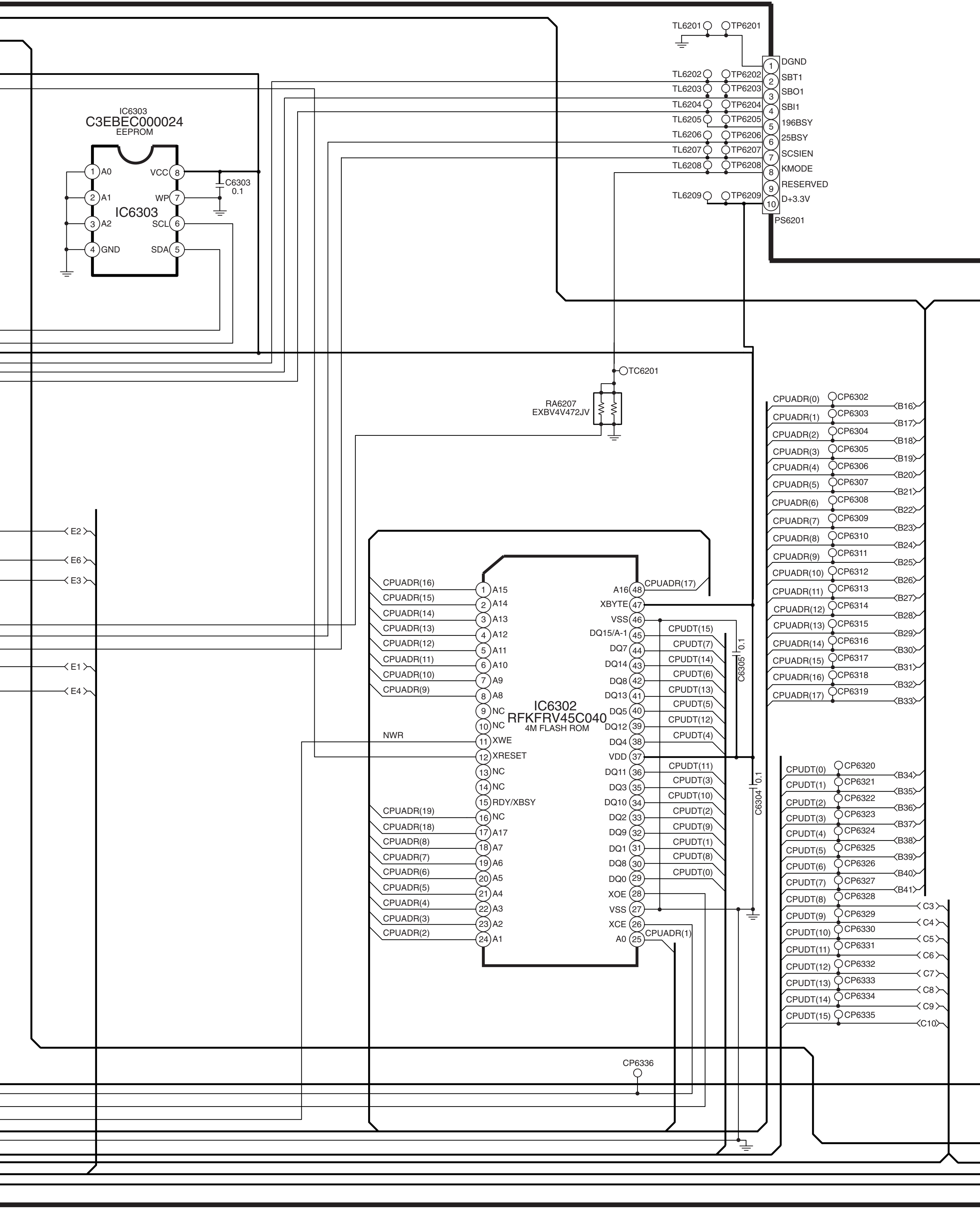
: +B SIGNAL LINE


IC6301
M/R
VCC
SUB
GND
VOUT
R6302
4.7K
TC6311
C6301
0.1
IC6301
PST596JNR
RESET
RA6206
EXBV4V473JV
R6301
10K
D6301
MA728TX
R6303
1K
CP6301
C6302
0.1
QR6301
QR6301
UNR5212TX
RESET SWITCH
A16
A26
A11
F1
B11
A19
CP6233
CP6232
CP6231
CP6230
CP6229
LB6201
VLP0323A601R
D3
C6201
6.3V33
RA6201
EXBV4V103JV
CPUDT(15)
CPUDT(14)
CPUDT(13)
CPUDT(12)
CPUDT(11)
CPUDT(10)
CPUDT(9)
CPUDT(8)
CPUDT(7)
CPUDT(6)
CPUDT(5)
CPUDT(4)
CPUDT(3)
CPUDT(2)
CPUDT(1)
CPUDT(0)
C6206
0.1
RA6203-RA6204
EXBV4V103JV
RA6205
EXBV8V473JV
RA6204
RA6203
CP6201
CP6202
CP6203
CP6204
CP6205
CP6206
CP6207
CP6208
CP6209
CP6210
D10
CPUADR(0)
CPUADR(1)
CPUADR(2)
CPUADR(3)
C6202
0.1
CP6211
LB6202
VLP0155-T
C6203
0.1
E5
WAIT
NRE
NWEL/P62
NWEH/P63
NCS0/P50
NCS1/P51
NCS2P52
NCS3/P53
P54/NBEQ
P55/NBRACK
P56
P57/NWORD
A0
A1
A2
A3
VDD
BOSC/PB0
VSS
XI/PB1
XO
VDD
OSCI
OSCO
MODE
D15
D14
D13
D12
D11
D10
D9
D8
VSS
D7
D6
D5
D4
D3
D2
D1
D0
VDD
NRST
ADSEP
NRIQ4/PA4
NRIQ3/PA3
NRIQ2/PA2
NRIQ1/PA1
NRIQ0/PA0
IC6201
MN102H60GFA
CPU
NNMI
PULLUP1
PULLUP0
P75/SBO1
P74/SBI1
P73/SBT1
P72/SBO0/UCAS
P71/SBI0/LCAS
P70/SBT0/RAS
VDD
P97/AN3
P96/AN2
P95/AN1
P94/AN0
VSS
P93
P92
P91
P90
P87/SBO4
P86/SBI4
VREF+
P85/SBT4
P84/SBO3
P83/SBI3
CP6228
CP6227
CP6226
CP6224
C6205
0.1
CP6221
A13
A14
A12
CP6225
CP6223
CP6222
TL6210
TP6210
CP6220
R6205
1K
R6204
10K
CP6219
CP6218
CP6217
IC6222
C0JBAA000001
INVERTER
A4
A5
A6
A7
A8
A9
A10
A11
AVDD
A12
A13
A14
A15
A16
A17
A18
A19/P43
VREF-
A20/P44/AN4
A21/P45/AN5
A22/P46/AN6
A23/P47/AN7
P80/DAC0
P81/DAC1
P82/SBT3
C6211
0.1
IC6222
INB
INA
GND
VCC
OUTY
LB6221
VLP0323A601R
A1
C6222
0.1
D8
C6204
0.1
CP6212
CP6216
R6201
10K
RA6202
EXBV4V103JV
D9
R6202
10K
CPUADR(4)
CPUADR(5)
CPUADR(6)
CPUADR(7)
CPUADR(8)
CPUADR(9)
CPUADR(10)
CPUADR(11)
CPUADR(12)
CPUADR(13)
CPUADR(14)
CPUADR(15)
CPUADR(16)
CPUADR(17)
CPUADR(18)
CPUADR(19)
IC6221
C0JBAA000001
INVERTER
IC6221
INB
INA
GND
VCC
OUTY
C6221
0.1
D7
CP6215
CP6214
CP6213
A17
A18
A10
C31
C12

SCHEMATIC DIAGRAM - 8

: +B SIGNAL LINE

B DVD MODULE(2) CIRCUIT

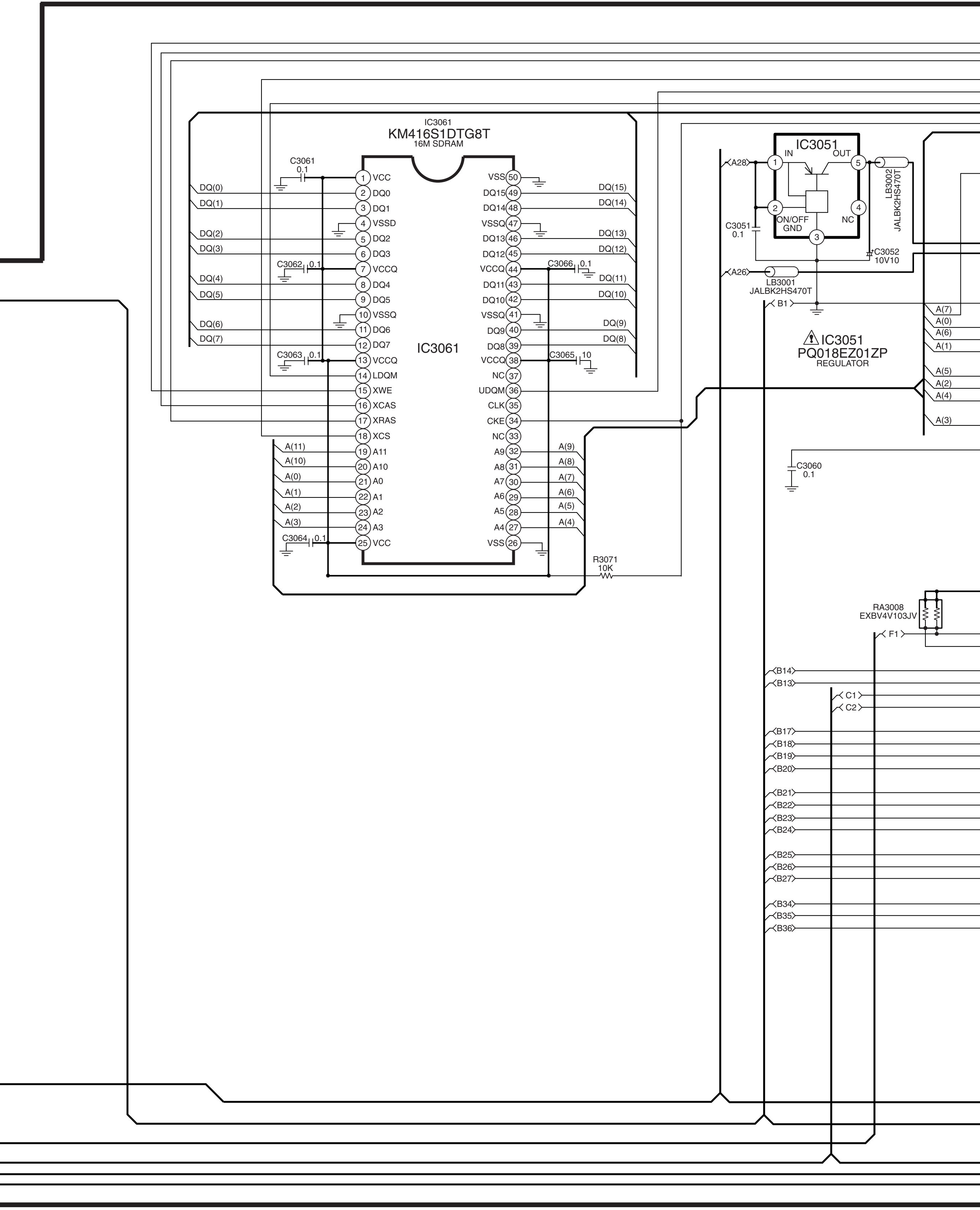


IC6303
C3EBEC000024
EEPROM
IC6303
1 A0
2 A1
3 A2
4 GND
8 VCC
7 WP
6 SCL
5 SDA
C6303
0.1
TL6201
TP6201
TL6202
TP6202
TL6203
TP6203
TL6204
TP6204
TL6205
TP6205
TL6206
TP6206
TL6207
TP6207
TL6208
TP6208
TL6209
TP6209
1 DGND
2 SBT1
3 SBO1
4 SBI1
5 196BSY
6 25BSY
7 SCSIEN
8 KMODE
9 RESERVED
10 D+3.3V
PS6201
TC6201
RA6207
EXBV4V472JV
E2
E6
E3
E1
E4
IC6302
RFKFRV45C040
4M FLASH ROM
CPUADR(16) 1 A15
CPUADR(15) 2 A14
CPUADR(14) 3 A13
CPUADR(13) 4 A12
CPUADR(12) 5 A11
CPUADR(11) 6 A10
CPUADR(10) 7 A9
CPUADR(9) 8 A8
9 NC
10 NC
NWR 11 XWE
12 XRESET
13 NC
14 NC
15 RDY/XBSY
CPUADR(19) 16 NC
CPUADR(18) 17 A17
CPUADR(8) 18 A7
CPUADR(7) 19 A6
CPUADR(6) 20 A5
CPUADR(5) 21 A4
CPUADR(4) 22 A3
CPUADR(3) 23 A2
CPUADR(2) 24 A1
A16 48 CPUADR(17)
XBYTE 47
VSS 46
DQ15/A-1 45 CPUDT(15)
DQ7 44 CPUDT(7)
DQ14 43 CPUDT(14)
DQ8 42 CPUDT(6)
DQ13 41 CPUDT(13)
DQ5 40 CPUDT(5)
DQ12 39 CPUDT(12)
DQ4 38 CPUDT(4)
VDD 37
DQ11 36 CPUDT(11)
DQ3 35 CPUDT(3)
DQ10 34 CPUDT(10)
DQ2 33 CPUDT(2)
DQ9 32 CPUDT(9)
DQ1 31 CPUDT(1)
DQ8 30 CPUDT(8)
DQ0 29 CPUDT(0)
XOE 28
VSS 27
XCE 26
A0 25 CPUADR(1)
C6305
0.1
C6304
0.1
CPUADR(0) CP6302 B16
CPUADR(1) CP6303 B17
CPUADR(2) CP6304 B18
CPUADR(3) CP6305 B19
CPUADR(4) CP6306 B20
CPUADR(5) CP6307 B21
CPUADR(6) CP6308 B22
CPUADR(7) CP6309 B23
CPUADR(8) CP6310 B24
CPUADR(9) CP6311 B25
CPUADR(10) CP6312 B26
CPUADR(11) CP6313 B27
CPUADR(12) CP6314 B28
CPUADR(13) CP6315 B29
CPUADR(14) CP6316 B30
CPUADR(15) CP6317 B31
CPUADR(16) CP6318 B32
CPUADR(17) CP6319 B33
CPUDT(0) CP6320 B34
CPUDT(1) CP6321 B35
CPUDT(2) CP6322 B36
CPUDT(3) CP6323 B37
CPUDT(4) CP6324 B38
CPUDT(5) CP6325 B39
CPUDT(6) CP6326 B40
CPUDT(7) CP6327 B41
CPUDT(8) CP6328 C3
CPUDT(9) CP6329 C4
CPUDT(10) CP6330 C5
CPUDT(11) CP6331 C6
CPUDT(12) CP6332 C7
CPUDT(13) CP6333 C8
CPUDT(14) CP6334 C9
CPUDT(15) CP6335 C10
CP6336

SCHEMATIC DIAGRAM - 9

B DVD MODULE(2) CIRCUIT

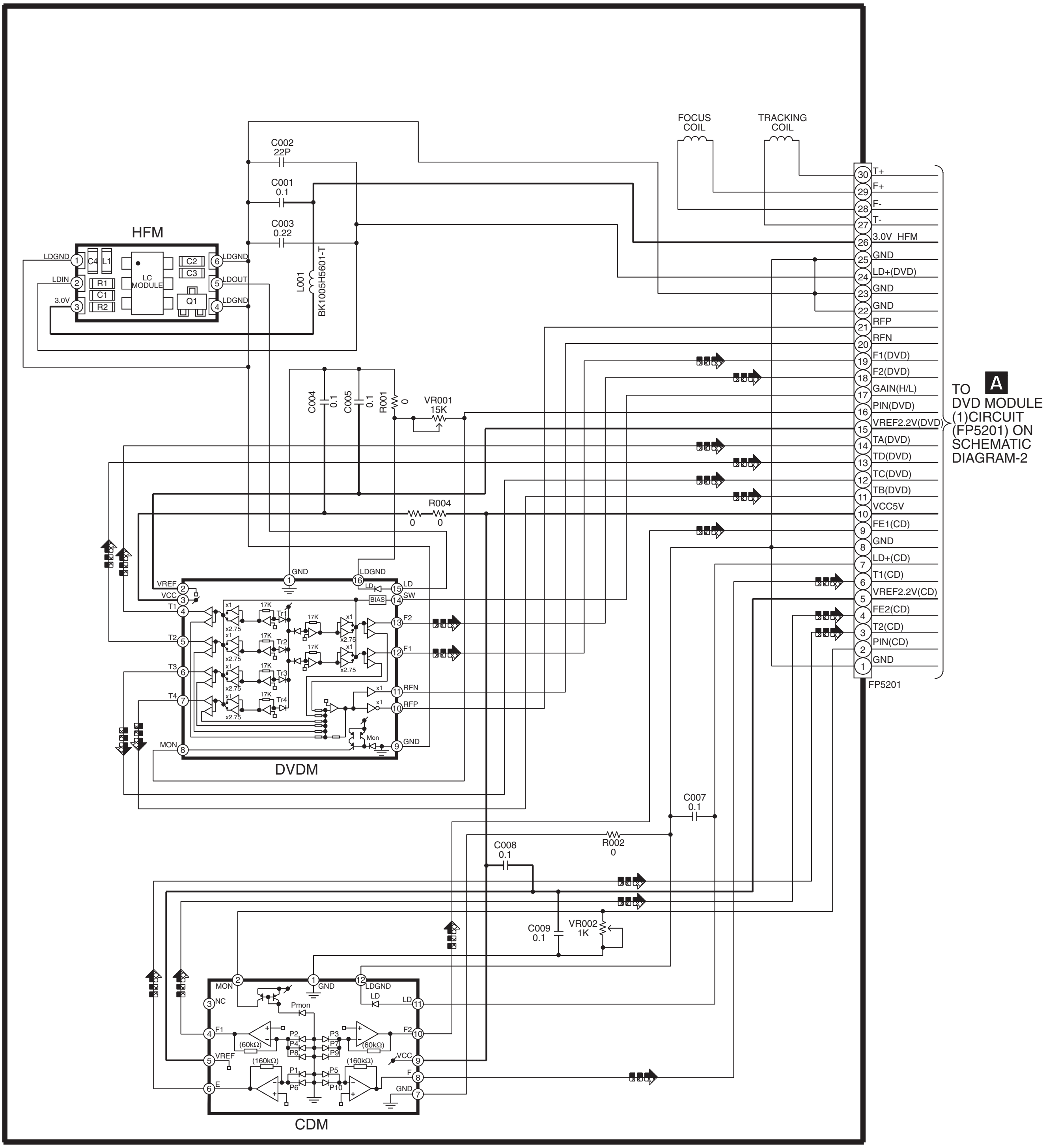
: +B SIGNAL LINE


IC3061
KM416S1DTG8T
16M SDRAM
IC3061
C3061
0.1
C3062
0.1
C3063
0.1
C3064
0.1
C3065
10
C3066
0.1
1 VCC
2 DQ0
3 DQ1
4 VSSD
5 DQ2
6 DQ3
7 VCCQ
8 DQ4
9 DQ5
10 VSSQ
11 DQ6
12 DQ7
13 VCCQ
14 LDQM
15 XWE
16 XCAS
17 XRAS
18 XCS
19 A11
20 A10
21 A0
22 A1
23 A2
24 A3
25 VCC
VSS 50
DQ15 49
DQ14 48
VSSQ 47
DQ13 46
DQ12 45
VCCQ 44
DQ11 43
DQ10 42
VSSQ 41
DQ9 40
DQ8 39
VCCQ 38
NC 37
UDQM 36
CLK 35
CKE 34
NC 33
A9 32
A8 31
A7 30
A6 29
A5 28
A4 27
VSS 26
DQ(0)
DQ(1)
DQ(2)
DQ(3)
DQ(4)
DQ(5)
DQ(6)
DQ(7)
DQ(15)
DQ(14)
DQ(13)
DQ(12)
DQ(11)
DQ(10)
DQ(9)
DQ(8)
A(11)
A(10)
A(0)
A(1)
A(2)
A(3)
A(9)
A(8)
A(7)
A(6)
A(5)
A(4)
R3071
10K
IC3051
IN
OUT
ON/OFF
GND
NC
1
2
3
4
5
A28
A26
B1
C3051
0.1
C3052
10V10
LB3001
JALBK2HS470T
LB3002
JALBK2HS470T
IC3051
PQ018EZ01ZP
REGULATOR
A(7)
A(0)
A(6)
A(1)
A(5)
A(2)
A(4)
A(3)
C3060
0.1
RA3008
EXBV4V103JV
F1
B14
B13
C1
C2
B17
B18
B19
B20
B21
B22
B23
B24
B25
B26
B27
B34
B35
B36

SCHEMATIC DIAGRAM - 1

: +B SIGNAL LINE　　: DVD (AUDIO/VIDEO) SIGNAL LINE

OPTICAL PICKUP UNIT



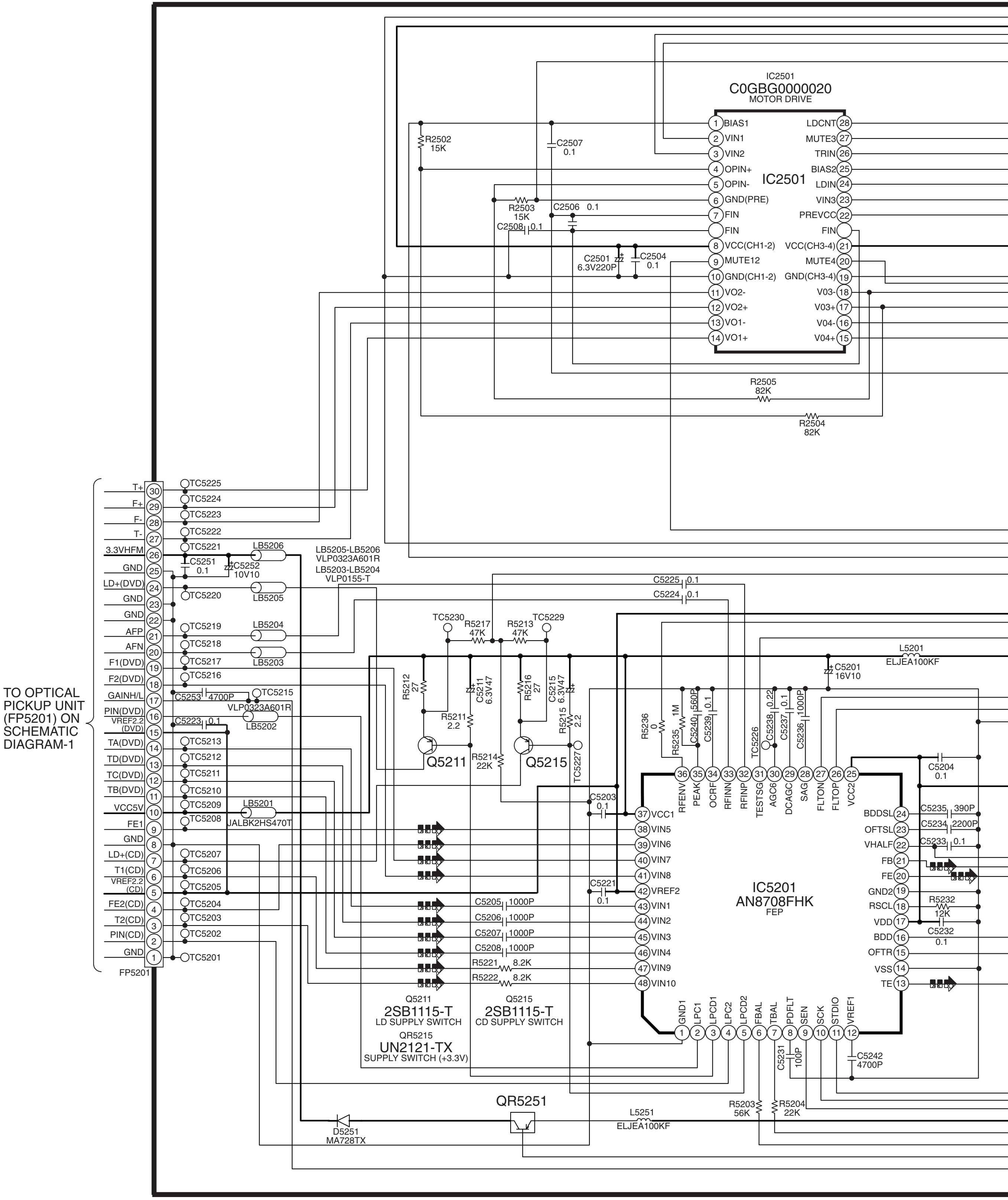
FOCUS COIL
TRACKING COIL
C002 22P
C001 0.1
C003 0.22
HFM
LDGND
LDIN
3.0V
C4
L1
R1
C1
R2
LC MODULE
C2
C3
Q1
LDGND
LDOUT
LDGND
L001 BK1005H5601-T
C004 0.1
C005 0.1
R001 0
VR001 15K
R004 0 0
GND
LDGND
VREF
VCC
T1
T2
T3
T4
MON
LD
SW
BIAS
F2
F1
RFN
RFP
GND
17K
Tr1
Tr2
Tr3
Tr4
x1
x2.75
Mon
DVDM
C007 0.1
R002 0
C008 0.1
C009 0.1
VR002 1K
MON
NC
F1
VREF
E
GND
LDGND
LD
Pmon
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
(60kΩ)
(160kΩ)
F2
VCC
F
GND
CDM
30 T+
29 F+
28 F-
27 T-
26 3.0V HFM
25 GND
24 LD+(DVD)
23 GND
22 GND
21 RFP
20 RFN
19 F1(DVD)
18 F2(DVD)
17 GAIN(H/L)
16 PIN(DVD)
15 VREF2.2V(DVD)
14 TA(DVD)
13 TD(DVD)
12 TC(DVD)
11 TB(DVD)
10 VCC5V
9 FE1(CD)
8 GND
7 LD+(CD)
6 T1(CD)
5 VREF2.2V(CD)
4 FE2(CD)
3 T2(CD)
2 PIN(CD)
1 GND
FP5201
TO A DVD MODULE (1)CIRCUIT (FP5201) ON SCHEMATIC DIAGRAM-2

SCHEMATIC DIAGRAM - 2

A DVD MODULE(1) CIRCUIT

: +B SIGNAL LINE

: DVD (AUDIO/VIDEO) SIGNAL LINE

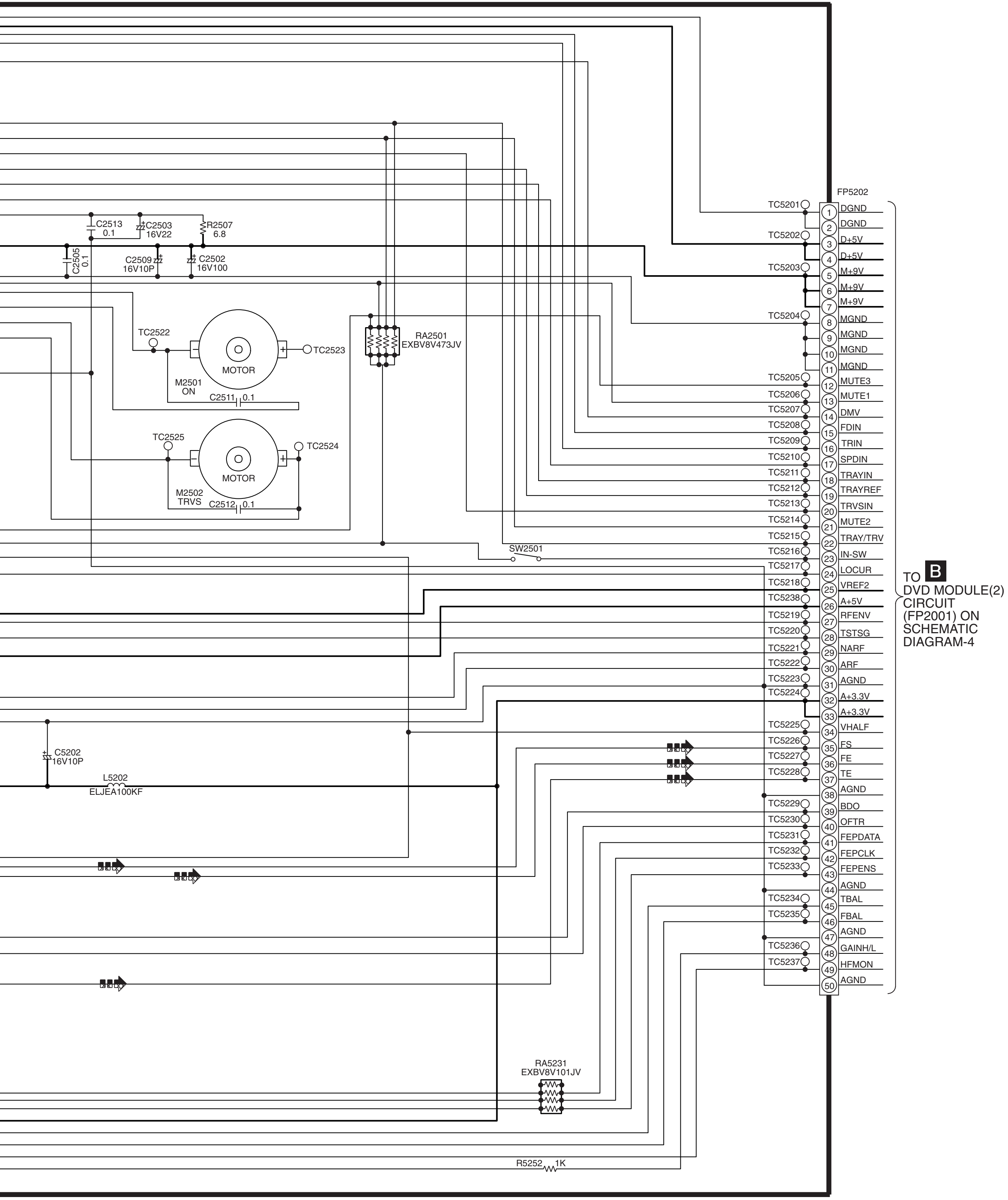

IC2501
C0GBG0000020
MOTOR DRIVE
IC2501
1 BIAS1
2 VIN1
3 VIN2
4 OPIN+
5 OPIN-
6 GND(PRE)
7 FIN
FIN
8 VCC(CH1-2)
9 MUTE12
10 GND(CH1-2)
11 VO2-
12 VO2+
13 VO1-
14 VO1+
LDCNT 28
MUTE3 27
TRIN 26
BIAS2 25
LDIN 24
VIN3 23
PREVCC 22
FIN
VCC(CH3-4) 21
MUTE4 20
GND(CH3-4) 19
V03- 18
V03+ 17
V04- 16
V04+ 15
R2502 15K
C2507 0.1
R2503 15K
C2506 0.1
C2508 0.1
C2501 6.3V220P
C2504 0.1
R2505 82K
R2504 82K
TO OPTICAL PICKUP UNIT (FP5201) ON SCHEMATIC DIAGRAM-1
FP5201
T+ 30
F+ 29
F- 28
T- 27
3.3VHFM 26
GND 25
LD+(DVD) 24
GND 23
GND 22
AFP 21
AFN 20
F1(DVD) 19
F2(DVD) 18
GAINH/L 17
PIN(DVD) 16
VREF2.2 (DVD) 15
TA(DVD) 14
TD(DVD) 13
TC(DVD) 12
TB(DVD) 11
VCC5V 10
FE1 9
GND 8
LD+(CD) 7
T1(CD) 6
VREF2.2 (CD) 5
FE2(CD) 4
T2(CD) 3
PIN(CD) 2
GND 1
TC5225
TC5224
TC5223
TC5222
TC5221
C5251 0.1
C5252 10V10
LB5206
LB5205-LB5206 VLP0323A601R
LB5203-LB5204 VLP0155-T
TC5220
LB5205
TC5219
LB5204
TC5218
TC5217
LB5203
TC5216
C5253 4700P
TC5215
VLP0323A601R
C5223 0.1
LB5202
TC5213
TC5212
TC5211
TC5210
TC5209
LB5201
TC5208
JALBK2HS470T
TC5207
TC5206
TC5205
TC5204
TC5203
TC5202
TC5201
TC5230
R5217 47K
R5213 47K
TC5229
R5212 27
C5211 6.3V47
R5216 27
C5215 6.3V47
R5211 2.2
R5215 2.2
Q5211
R5214 22K
Q5215
TC5227
C5225 0.1
C5224 0.1
L5201 ELJEA100KF
C5201 16V10
R5236 0
R5235 1M
C5240 560P
C5239 0.1
TC5226
C5238 0.22
C5237 0.1
C5236 1000P
C5204 0.1
C5203 0.1
C5221 0.1
36 RFENV
35 PEAK
34 OCRF
33 RFINN
32 RFINP
31 TESTSG
30 AGC6
29 DCAGC
28 SAG
27 FLTON
26 FLTOP
25 VCC2
37 VCC1
38 VIN5
39 VIN6
40 VIN7
41 VIN8
42 VREF2
43 VIN1
44 VIN2
45 VIN3
46 VIN4
47 VIN9
48 VIN10
BDDSL 24
OFTSL 23
VHALF 22
FB 21
FE 20
GND2 19
RSCL 18
VDD 17
BDD 16
OFTR 15
VSS 14
TE 13
C5235 390P
C5234 2200P
C5233 0.1
R5232 12K
C5232 0.1
IC5201
AN8708FHK
FEP
1 GND1
2 LPC1
3 LPCD1
4 LPC2
5 LPCD2
6 FBAL
7 TBAL
8 PDFLT
9 SEN
10 SCK
11 STDIO
12 VREF1
C5231 100P
C5242 4700P
C5205 1000P
C5206 1000P
C5207 1000P
C5208 1000P
R5221 8.2K
R5222 8.2K
Q5211
2SB1115-T
LD SUPPLY SWITCH
Q5215
2SB1115-T
CD SUPPLY SWITCH
QR5215
UN2121-TX
SUPPLY SWITCH (+3.3V)
QR5251
D5251 MA728TX
L5251 ELJEA100KF
R5203 56K
R5204 22K

SCHEMATIC DIAGRAM - 3

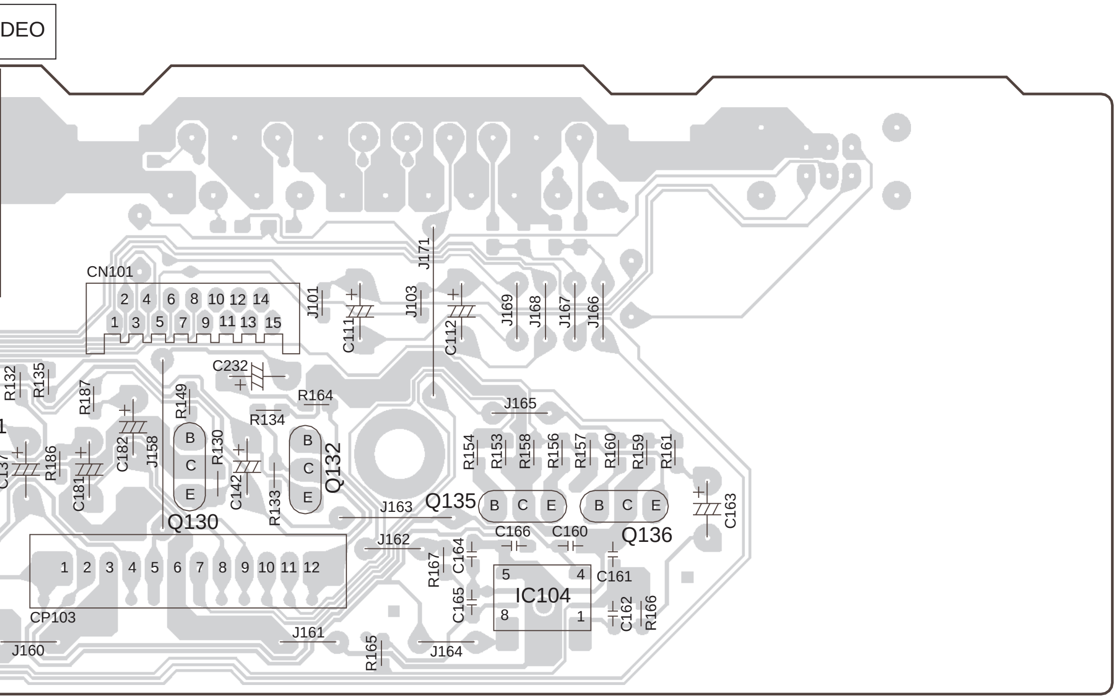
A DVD MODULE(1) CIRCUIT

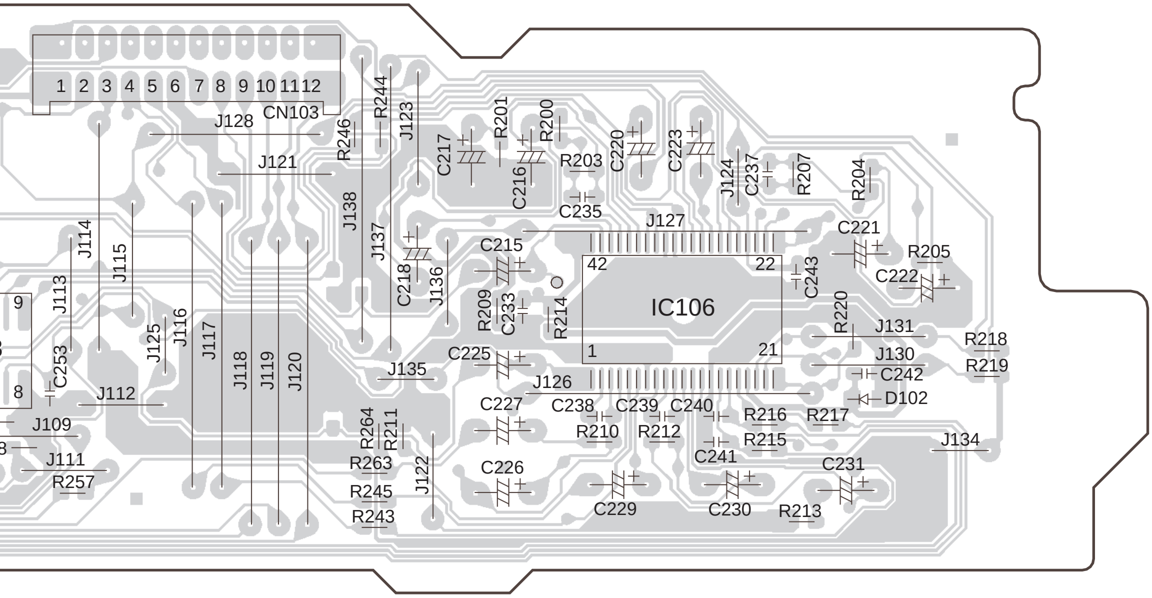
: +B SIGNAL LINE

: DVD (AUDIO/VIDEO) SIGNAL LINE

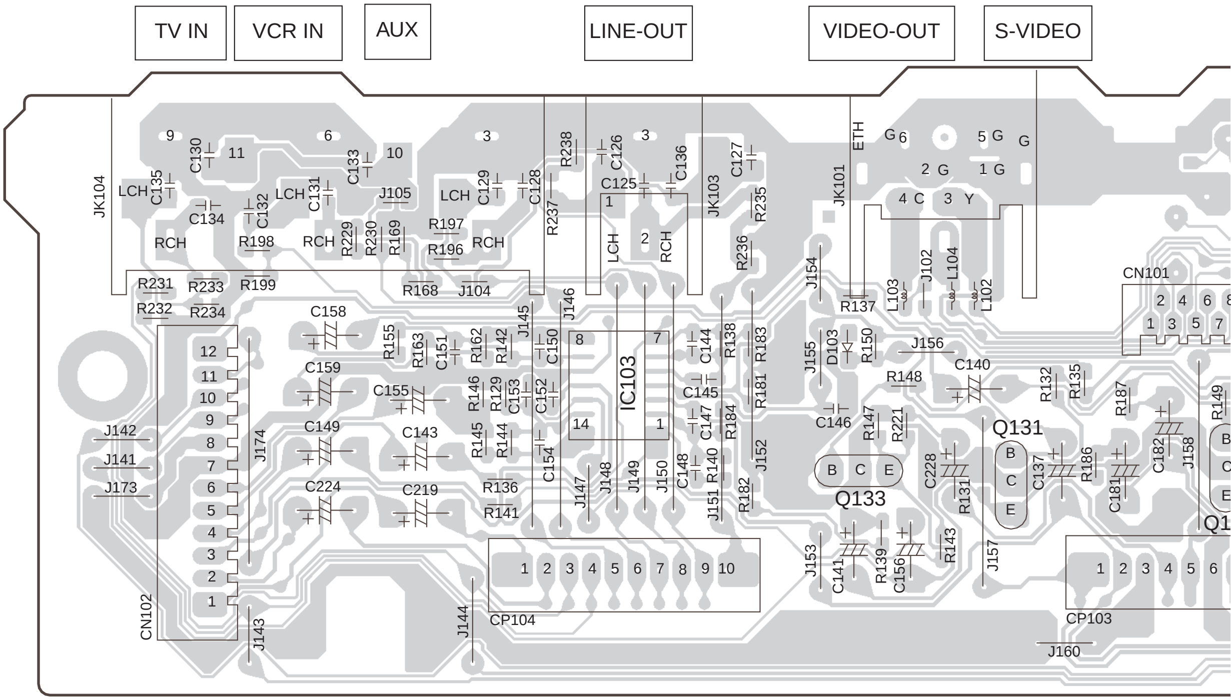

FP5202
TC5201
TC5202
TC5203
TC5204
TC5205
TC5206
TC5207
TC5208
TC5209
TC5210
TC5211
TC5212
TC5213
TC5214
TC5215
TC5216
TC5217
TC5218
TC5238
TC5219
TC5220
TC5221
TC5222
TC5223
TC5224
TC5225
TC5226
TC5227
TC5228
TC5229
TC5230
TC5231
TC5232
TC5233
TC5234
TC5235
TC5236
TC5237
1 DGND
2 DGND
3 D+5V
4 D+5V
5 M+9V
6 M+9V
7 M+9V
8 MGND
9 MGND
10 MGND
11 MGND
12 MUTE3
13 MUTE1
14 DMV
15 FDIN
16 TRIN
17 SPDIN
18 TRAYIN
19 TRAYREF
20 TRVSIN
21 MUTE2
22 TRAY/TRV
23 IN-SW
24 LOCUR
25 VREF2
26 A+5V
27 RFENV
28 TSTSG
29 NARF
30 ARF
31 AGND
32 A+3.3V
33 A+3.3V
34 VHALF
35 FS
36 FE
37 TE
38 AGND
39 BDO
40 OFTR
41 FEPDATA
42 FEPCLK
43 FEPENS
44 AGND
45 TBAL
46 FBAL
47 AGND
48 GAINH/L
49 HFMON
50 AGND
TO B
DVD MODULE(2)
CIRCUIT
(FP2001) ON
SCHEMATIC
DIAGRAM-4
C2513
0.1
C2503
16V22
R2507
6.8
C2505
0.1
C2509
16V10P
C2502
16V100
TC2522
MOTOR
TC2523
M2501
ON
C2511
0.1
RA2501
EXBV8V473JV
TC2525
TC2524
MOTOR
M2502
TRVS
C2512
0.1
SW2501
C5202
16V10P
L5202
ELJEA100KF
RA5231
EXBV8V101JV
R5252
1K

G H I J K L M

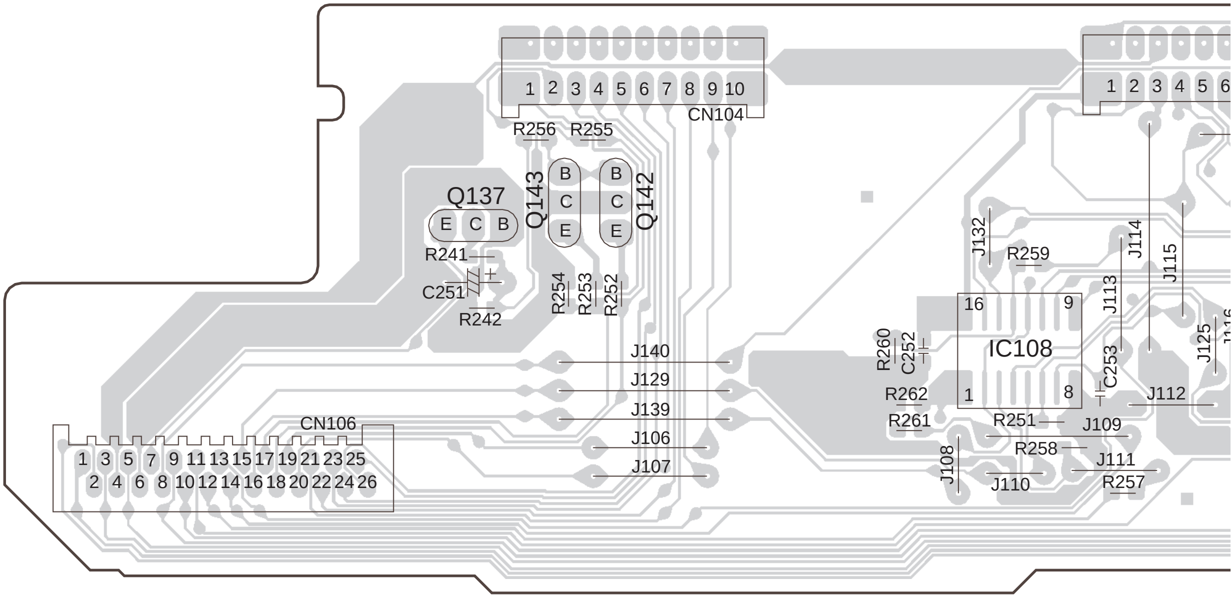

DEO
CN101
2 4 6 8 10 12 14
1 3 5 7 9 11 13 15
J101
C111
J103
J171
C112
J169
J168
J167
J166
C232
R132
R135
R187
R149
R164
R134
J165
C182
J158
R130
C142
R133
Q130
Q132
R186
C181
R154
R153
R158
R156
R157
R160
R159
R161
C163
J163
Q135
B C E
Q136
C166
C160
J162
R167
C164
C161
5 4
IC104
8 1
C165
C162
R166
1 2 3 4 5 6 7 8 9 10 11 12
CP103
J161
J160
R165
J164


1 2 3 4 5 6 7 8 9 10 11 12
CN103
J128
R244
J123
R201
R200
C217
C216
R203
C220
C223
J124
C237
R207
R204
J121
R246
J138
C235
J127
C221
R205
J114
J115
J137
C218
J136
C215
42
22
C243
C222
IC106
R209
C233
R214
R220
J131
R218
J113
9
J125
J116
J117
J118
J119
J120
J135
C225
1
21
J130
R219
C242
C253
8
J112
J126
D102
C227
C238
C239
C240
R216
R217
J109
R264
R211
R210
R212
R215
J134
J111
R263
C241
C231
R257
C226
J122
R245
C229
C230
R213
R243

C INPUT P.C.B. (REP3144A)


A
B
C
D
E
F
G
1
2
3
4
5
TV IN
VCR IN
AUX
LINE-OUT
VIDEO-OUT
S-VIDEO
JK104
JK103
JK101
ETH
LCH
RCH
C135
C134
C130
C132
C131
C133
C129
C128
C126
C125
C136
C127
J105
R198
R229
R230
R169
R197
R196
R238
R237
R235
R236
R231
R233
R199
R232
R234
R168
J104
C158
C159
C149
C224
C155
C143
C219
R155
R163
C151
R162
R142
J145
J146
C150
R146
R129
C153
C152
R145
R144
C154
R136
R141
J147
J148
J149
J150
IC103
8
7
14
1
C144
C145
C147
C148
R140
J151
R138
R183
R181
R184
R182
J152
J154
J155
D103
R150
J156
R148
C146
R147
R221
C140
R137
L103
J102
L104
L102
J157
J153
C141
R139
C156
R143
Q133
B
C
E
C228
R131
Q131
C137
R186
R132
R135
R187
C181
C182
J158
R149
CN101
J142
J141
J173
J174
CN102
J143
J144
CP104
CP103
J160
1
2
3
4
5
6
7
8
9
10
11
12

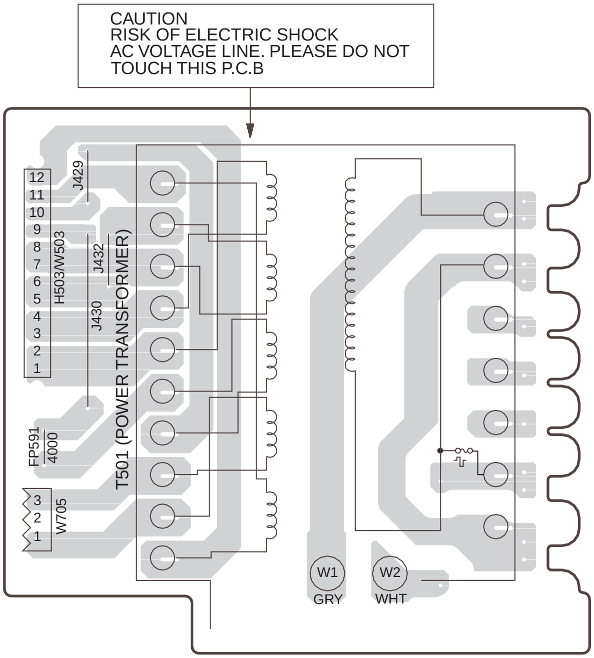
D ASP P.C.B. (REP3144A)


6
7
8
9
CN104
R256
R255
Q137
E
C
B
Q143
Q142
R241
C251
R242
R254
R253
R252
J140
J129
J139
J106
J107
CN106
1 3 5 7 9 11 13 15 17 19 21 23 25
2 4 6 8 10 12 14 16 18 20 22 24 26
J132
R259
J114
J115
J113
IC108
16
9
1
8
R260
C252
C253
J125
R262
R261
R251
J109
J112
J108
R258
J111
J110
R257

A B C D E F G

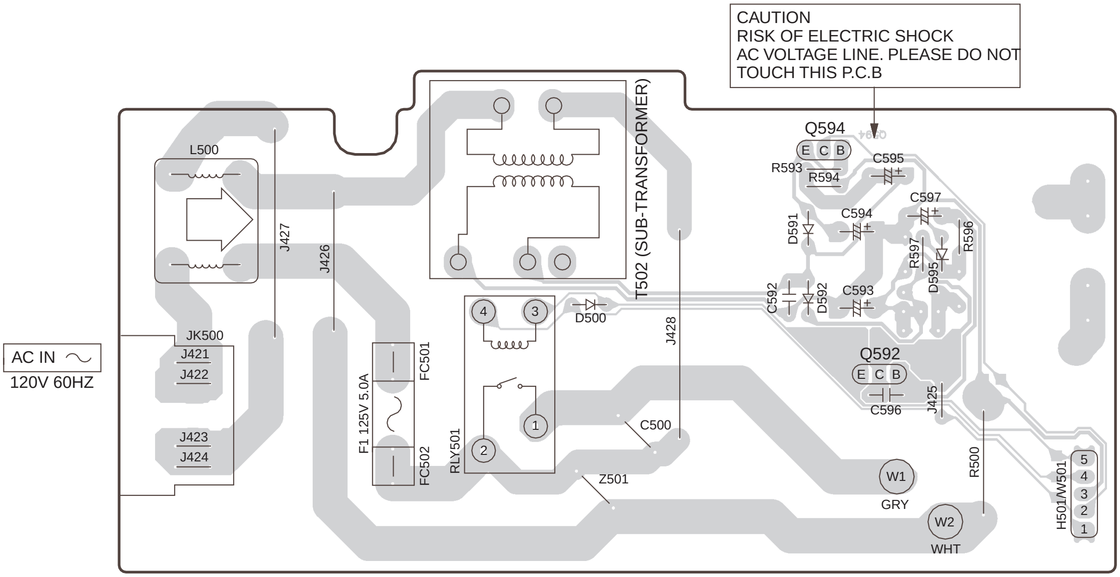
1 2 3 4 5 6 7 8 9

N SUB-TRANSFORMER P.C.B. (REP3143A)

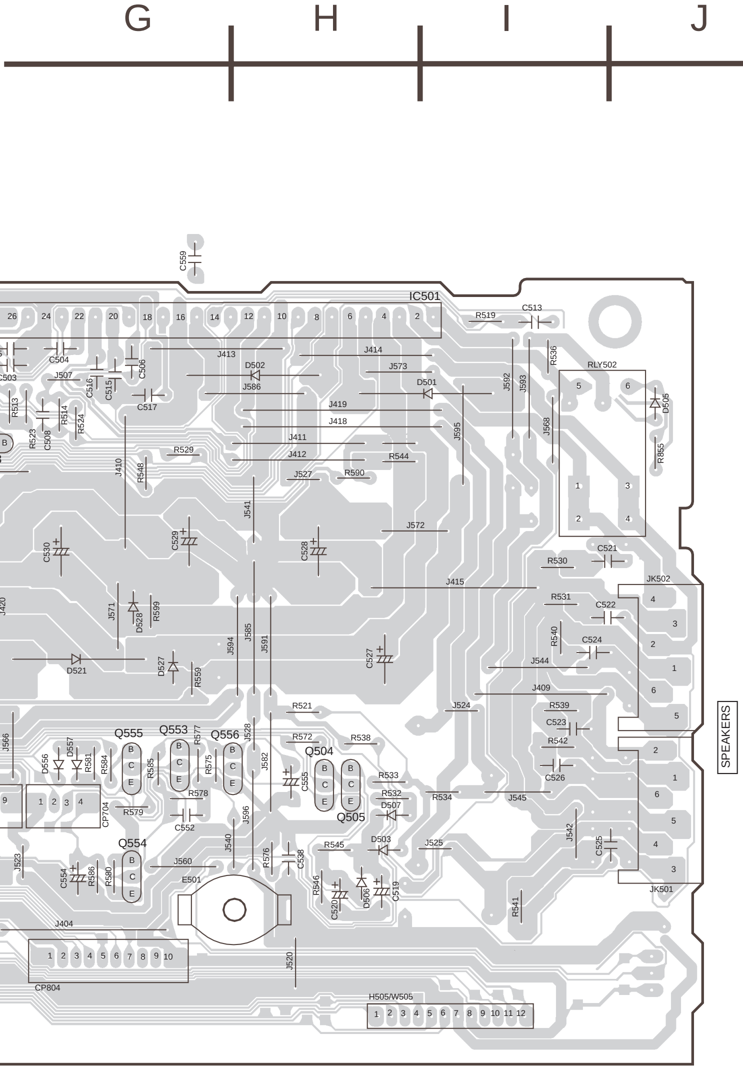

J429
12
11
10
9
8
7
6
5
4
3
2
1
H503/W503
J432
J430
T501 (POWER TRANSFORMER)
FP591
4000
3
2
1
W705
W1
GRY
W2
WHT

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B

O AC TRANSFORMER P.C.B. (REP3143A)


L500
J427
J426
T502 (SUB-TRANSFORMER)
JK500
J421
J422
J423
J424
AC IN
120V 60HZ
F1 125V 5.0A
FC501
FC502
RLY501
4
3
2
1
D500
J428
C500
Z501
Q594
E C B
R593
R594
C595
C597
C594
D591
R597
R596
D595
C592
D592
C593
Q592
E C B
C596
J425
R500
H501/W501
5
4
3
2
1
W1
GRY
W2
WHT

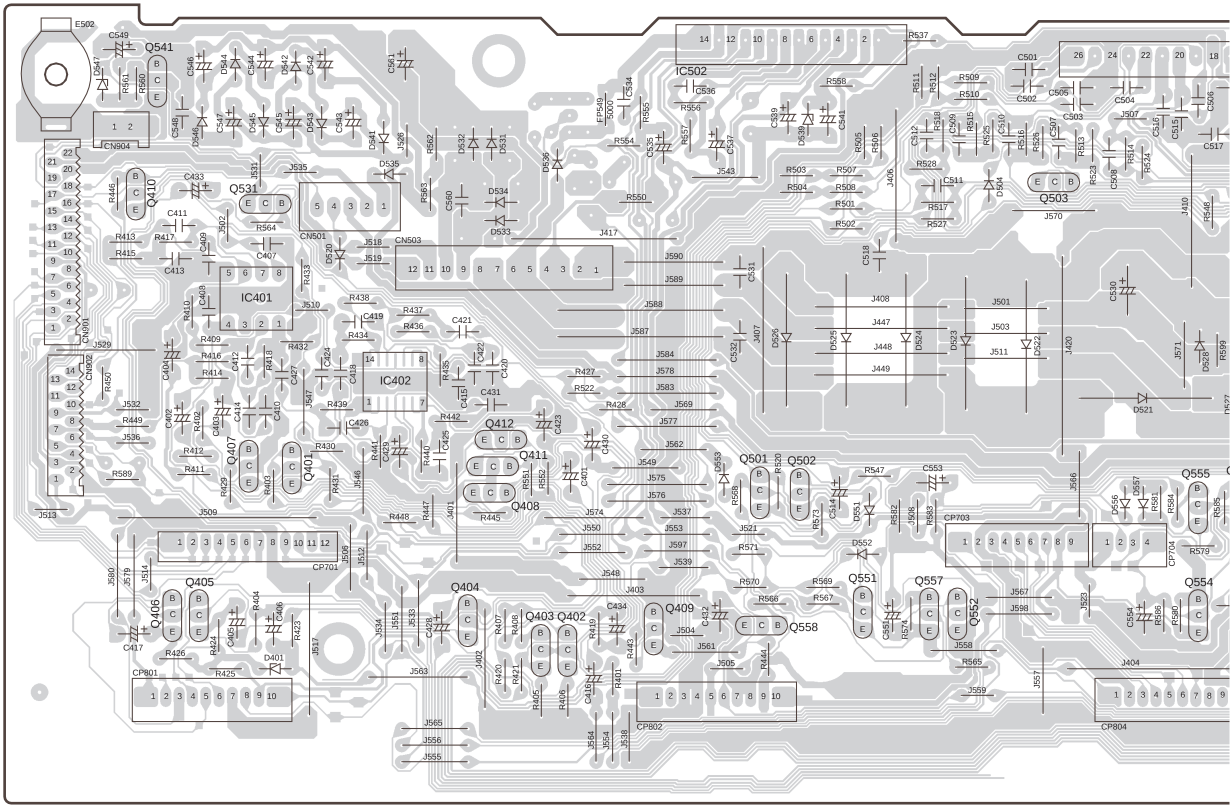
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B


G
H
I
J
K
L
M
C559
IC501
26
24
22
20
18
16
14
12
10
8
6
4
2
R519
C513
C505
C504
C503
J507
C516
C515
C506
C517
J413
J414
D502
J573
J586
D501
J592
J593
R536
RLY502
5
6
D505
J419
J418
J595
J568
R513
R523
C508
R514
R524
J411
J412
R529
R544
R855
Q503
J410
R548
J527
R590
1
3
2
4
J541
J572
C530
C529
C528
R530
C521
J415
JK502
J420
J571
D528
R599
R531
C522
R540
C524
J594
J585
J591
C527
D521
D527
R559
J544
J409
R521
J524
R539
C523
SPEAKERS
J566
Q555
Q553
Q556
R577
J528
R572
R538
R542
Q504
D556
D557
R581
R584
R585
R575
J582
C555
R533
C526
R532
R534
J545
B
C
E
CP704
R579
R578
C552
J596
Q505
D507
Q554
J540
R545
D503
J525
J542
C525
J523
C554
R586
R580
J560
R576
C538
E501
R546
C520
D506
C519
JK501
R541
J404
CP804
J520
H505/W505
1 2 3 4 5 6 7 8 9 10
1 2 3 4 5 6 7 8 9 10 11 12

A B C D E F G

1 2 3 4 5 6 7 8 9

M MAIN P.C.B. (REP3143A)


E502
C549
Q541
D547
R561
R560
C546
D544
C544
D542
C542
C561
C548
D546
C547
D545
C545
D543
C543
D541
J526
R562
D532
D531
D536
CN904
CN901
CN902
R446
Q410
C433
Q531
J531
J535
D535
C411
C413
C409
R413
R415
R417
J502
R564
C407
CN501
D520
J518
J519
CN503
R563
C560
D534
D533
J417
R550
FP549
5000
C534
R555
R554
C535
R557
C537
IC502
C536
R556
J543
R558
C539
D539
C541
R537
R503
R504
R507
R508
R501
R502
R505
R506
J406
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R512
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R518
C509
R515
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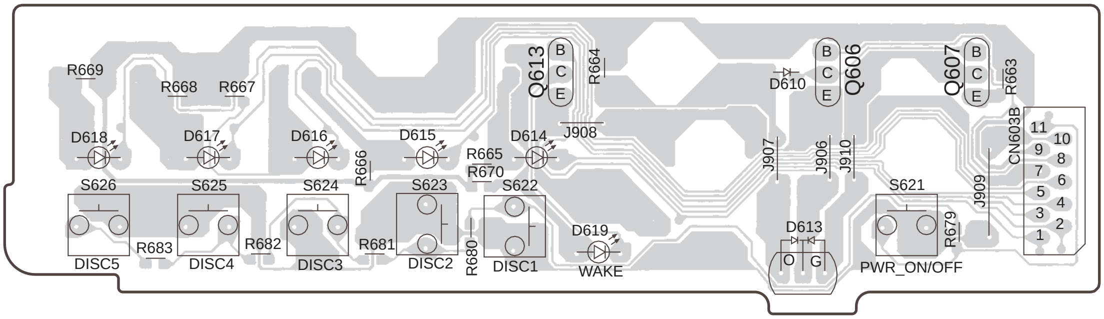
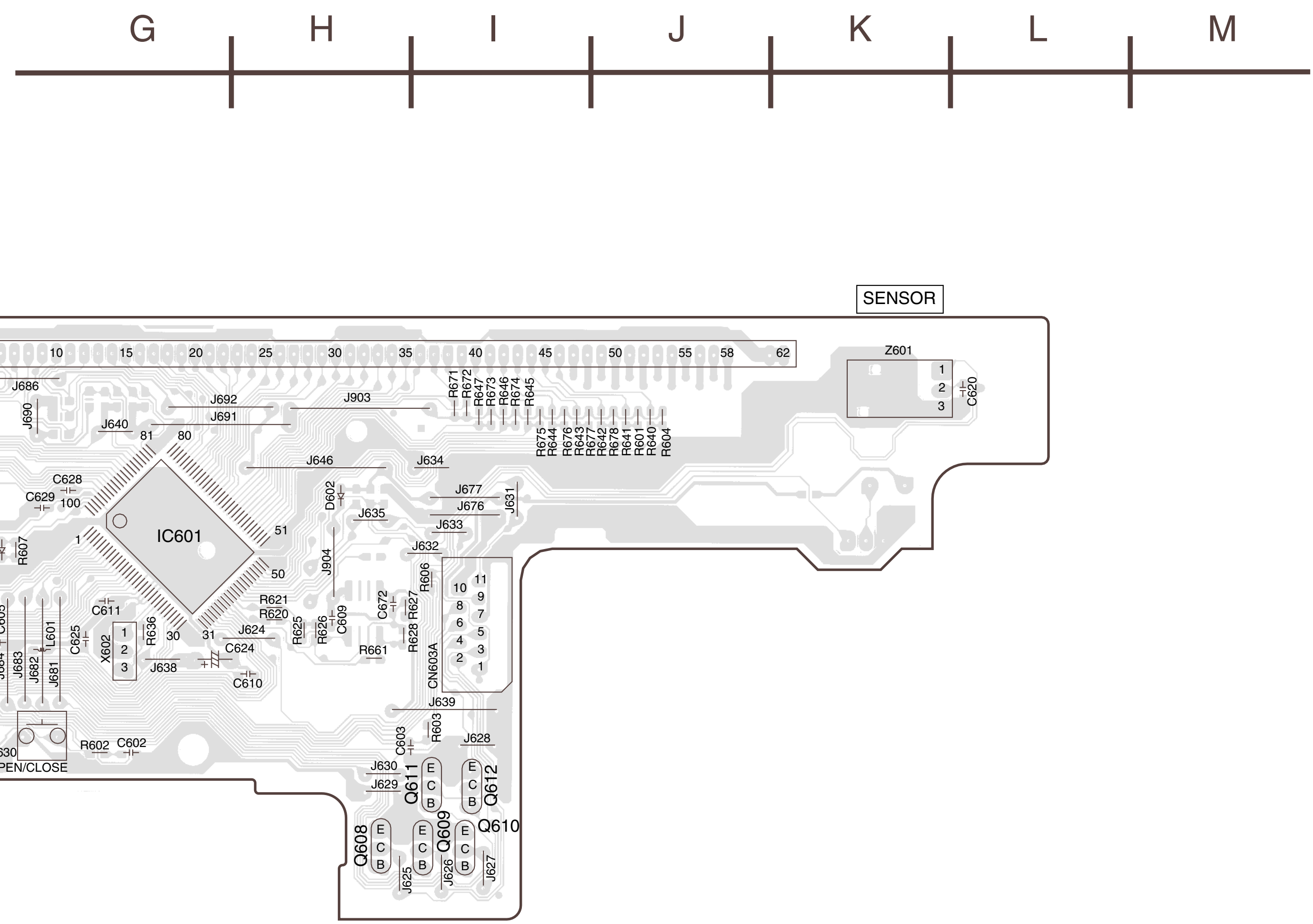
Q503
J570
C501
C502
C505
C503
C504
J507
C516
C515
C506
C517
J410
R548
IC401
C408
R410
R433
J510
R438
C419
R437
R436
R434
C421
R409
R416
R414
C404
C412
R418
R432
C424
C418
C422
C420
IC402
R435
C427
C415
C431
R427
R522
R428
R450
J529
J532
R449
J536
C402
R402
C403
C414
C410
J547
R439
C426
R442
Q412
C423
R412
R411
R589
Q407
R429
R403
Q401
R431
J546
R430
R441
C429
R440
C425
Q411
R551
R552
Q408
C401
C430
R445
R447
J401
R448
J513
J509
J590
J589
J588
J587
J584
J578
J583
J569
J577
J562
J549
J575
J576
J574
J537
J550
J553
J552
J597
J539
J548
J403
C531
C532
J407
D526
J408
J447
J448
J449
D525
D524
J501
J503
J511
D523
D522
J420
C518
C530
J571
D528
R599
D521
Q501
R520
Q502
D553
R568
C514
R573
D551
R547
C553
R582
J508
R583
J566
CP703
D556
D557
R581
R584
Q555
R585
CP704
R579
J521
R571
D552
J506
J512
CP701
J580
J579
J514
Q405
Q406
R404
C406
C405
C417
R424
R423
R426
R425
D401
J517
CP801
J534
J551
J533
C428
Q404
J402
J563
R407
R408
Q403
Q402
R420
R421
R405
R406
C416
R419
R401
R443
C434
Q409
C432
J504
J561
Q558
J505
R444
R570
R566
R569
R567
Q551
C551
R574
Q557
Q552
J567
J598
J558
R565
J523
C554
R586
R580
Q554
J557
J404
J559
CP802
J565
J556
J555
J564
J554
J538
CP804

K POWER SWITCH P.C.B. (REP3143A)

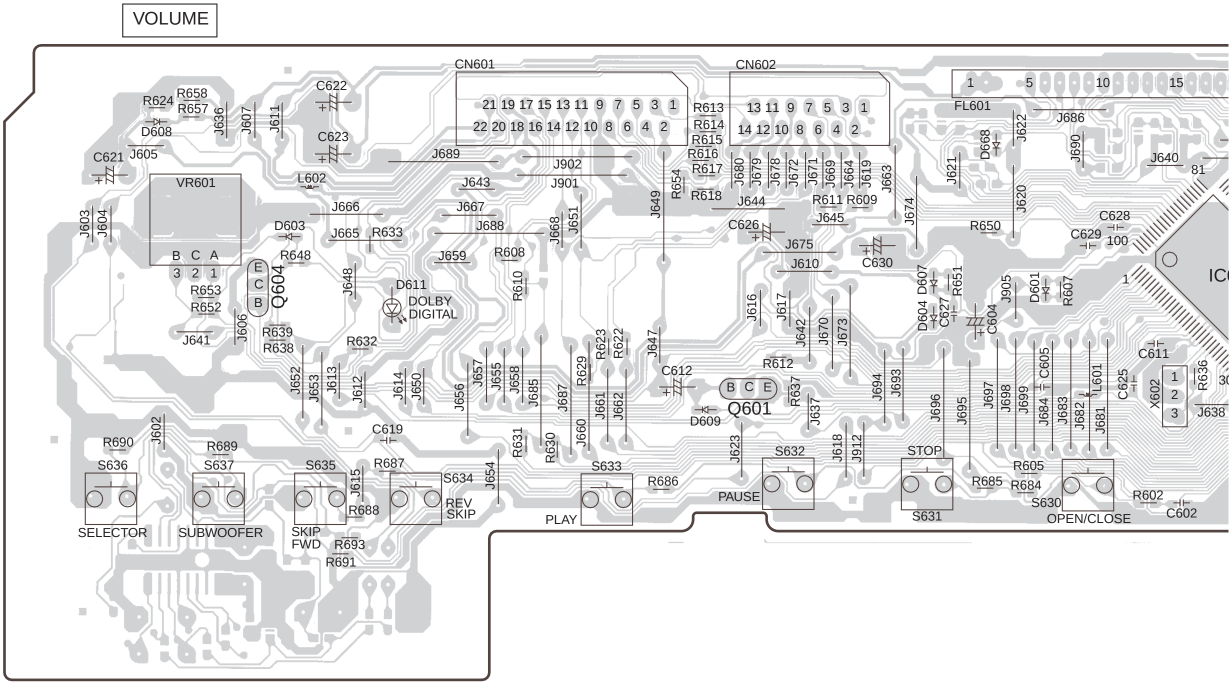

R669
R668
R667
Q613
B
C
E
R664
D610
Q606
Q607
R663
D618
D617
D616
D615
R665
D614
J908
R670
R666
J907
J906
J910
CN603B
J909
S626
S625
S624
S623
S622
S621
R683
R682
R681
R680
D619
D613
O
G
R679
DISC5
DISC4
DISC3
DISC2
DISC1
WAKE
PWR_ON/OFF
11
10
9
8
7
6
5
4
3
2
1


G
H
I
J
K
L
M
SENSOR
Z601
C620
IC601
CN603A
X602
L601
D602
Q608
Q609
Q610
Q611
Q612
E
C
B
J686
J690
J640
J692
J691
J903
J646
J634
J677
J676
J631
J635
J633
J632
J904
J624
J638
J639
J628
J630
J629
J625
J626
J627
J681
J682
J683
C628
C629
C611
C625
C624
C610
C609
C672
C603
C602
R671
R672
R647
R673
R646
R674
R645
R675
R644
R676
R643
R677
R642
R678
R641
R601
R640
R604
R607
R636
R621
R620
R625
R626
R627
R628
R606
R661
R603
R602
OPEN/CLOSE

A B C D E F G

1 2 3 4 5 6 7 8 9

J PANEL P.C.B. (REP3143A)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CN602
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Q604
Q601
D611
DOLBY DIGITAL
S636
SELECTOR
S637
SUBWOOFER
S635
SKIP FWD
S634
REV SKIP
S633
PLAY
S632
PAUSE
S631
STOP
S630
OPEN/CLOSE
X602
C602
C604
C605
C611
C612
C619
C621
C622
C623
C625
C626
C627
C628
C629
C630
D601
D603
D604
D607
D608
D609
D668
L601
L602
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R607
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R610
R611
R612
R613
R614
R615
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R617
R618
R622
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R633
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R654
R657
R658
R684
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R686
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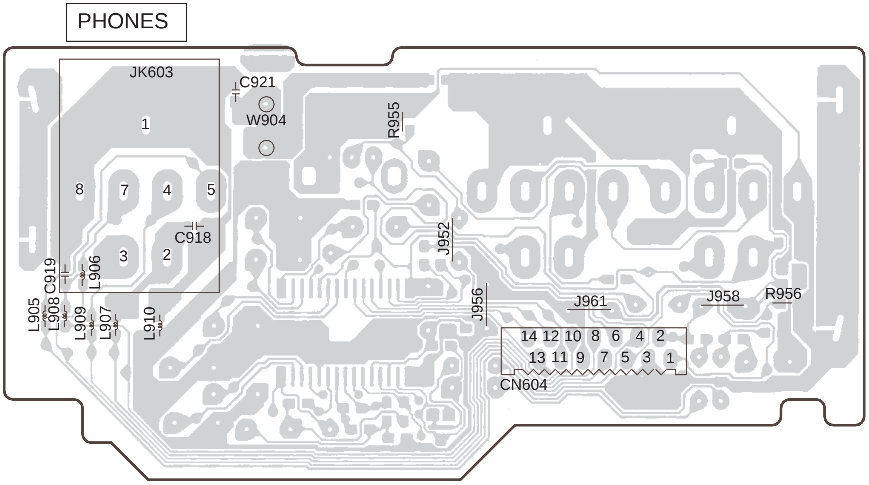
J912

L HEADPHONE P.C.B. (REP3143A)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R955
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J952
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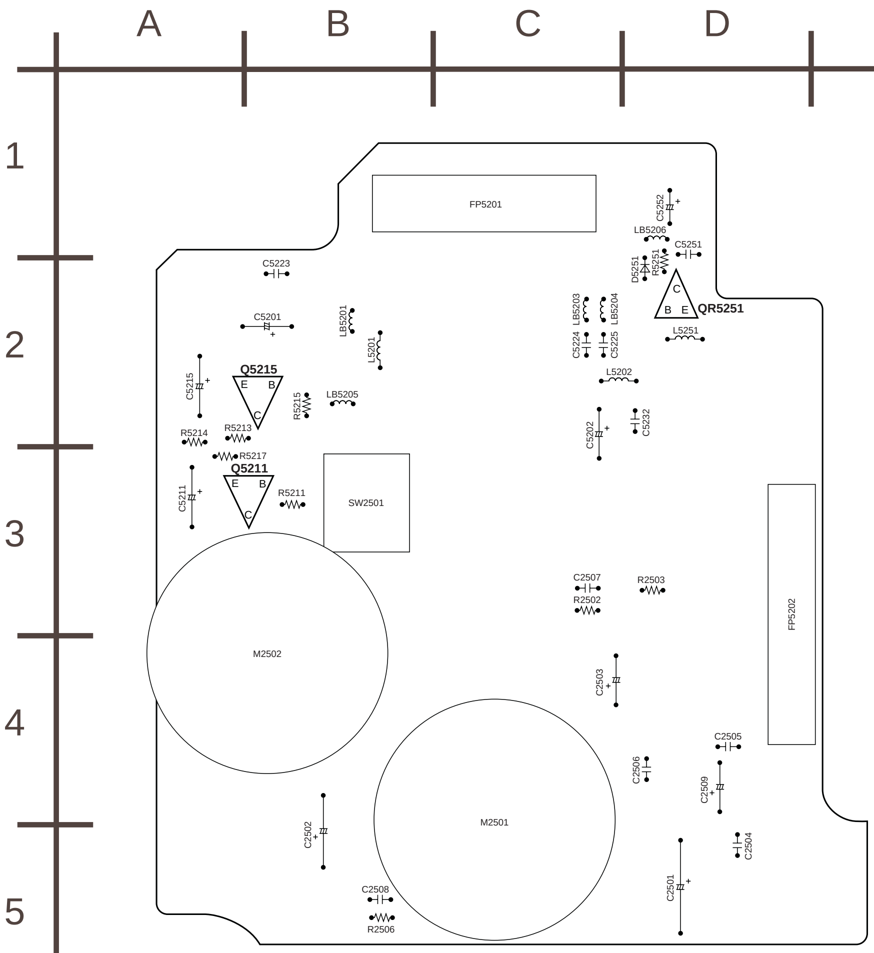
13 11 9 7 5 3 1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B
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B
C
C5211
R5211
SW2501
FP5202
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R2502
R2503
M2502
C2503
C2505
C2506
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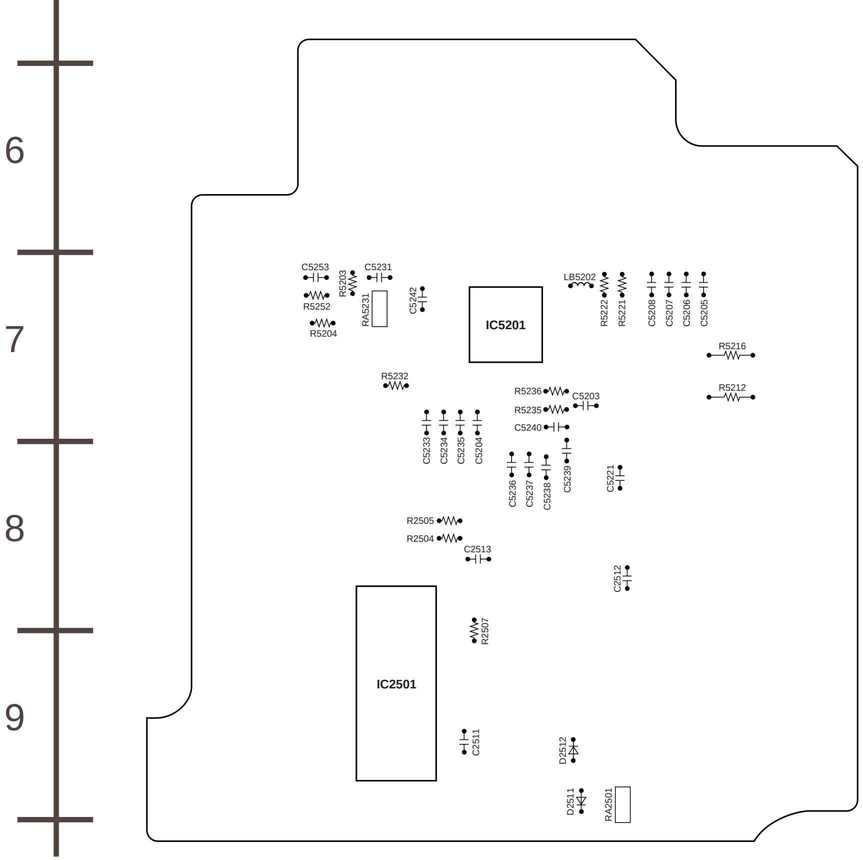
A DVD F/E MODULE (1/2) P.C.B (REP3091A-N)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C5237
C5238
C5221
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R2504
C2513
C2512
R2507
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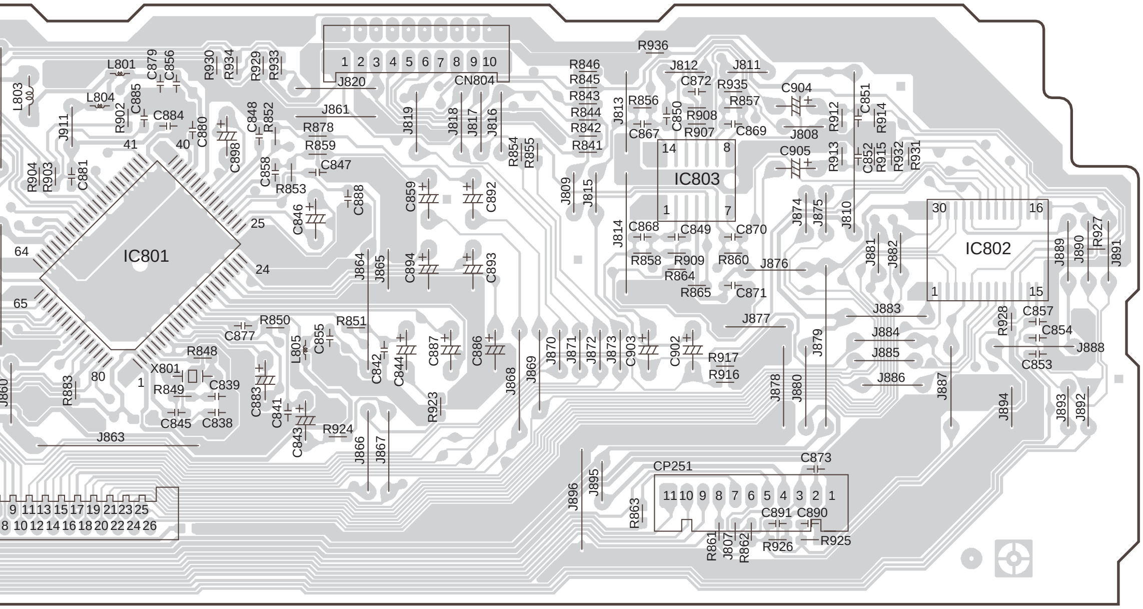
D2511
RA2501

A DVD F/E MODULE (2/2) P.C.B (REP3091A-N)

G H I J K L M



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R883
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R861
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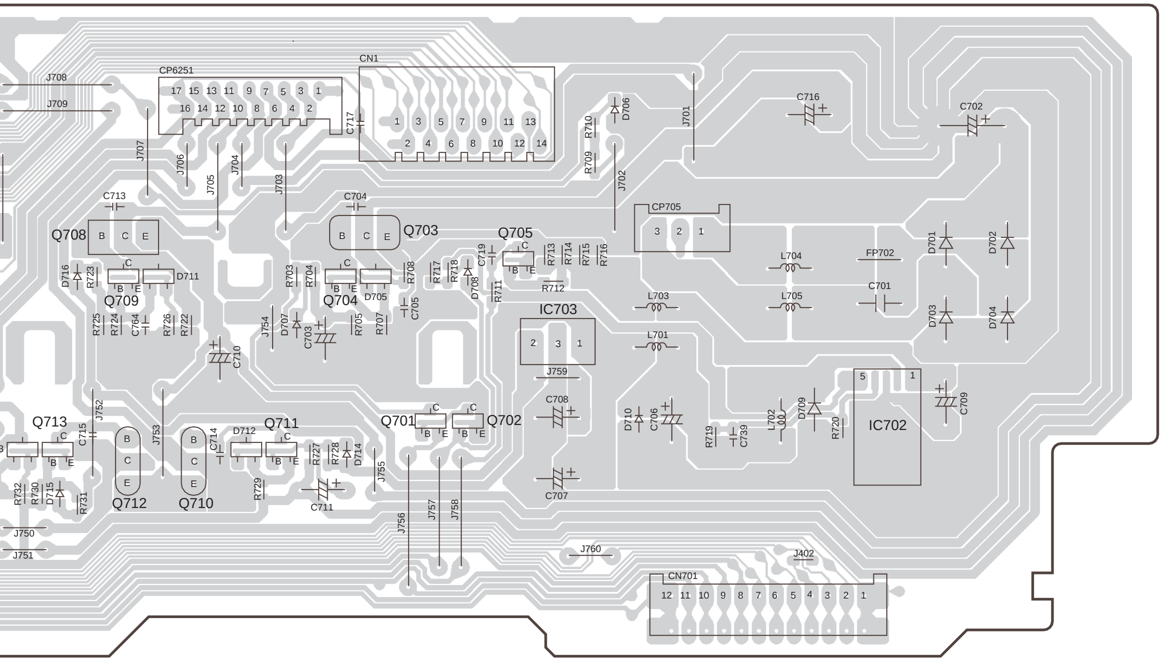
J807



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Q712
Q713
J701
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J703
J704
J705
J706
J707
J708
J709
J750
J751
J752
J753
J754
J755
J756
J757
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J760
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C702
C703
C704
C705
C706
C707
C708
C709
C710
C711
C713
C714
C715
C716
C717
C719
C739
C764
D701
D702
D703
D704
D705
D706
D707
D708
D709
D710
D711
D712
D714
D715
D716
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R715
R716
R717
R718
R719
R720
R722
R723
R724
R725
R726
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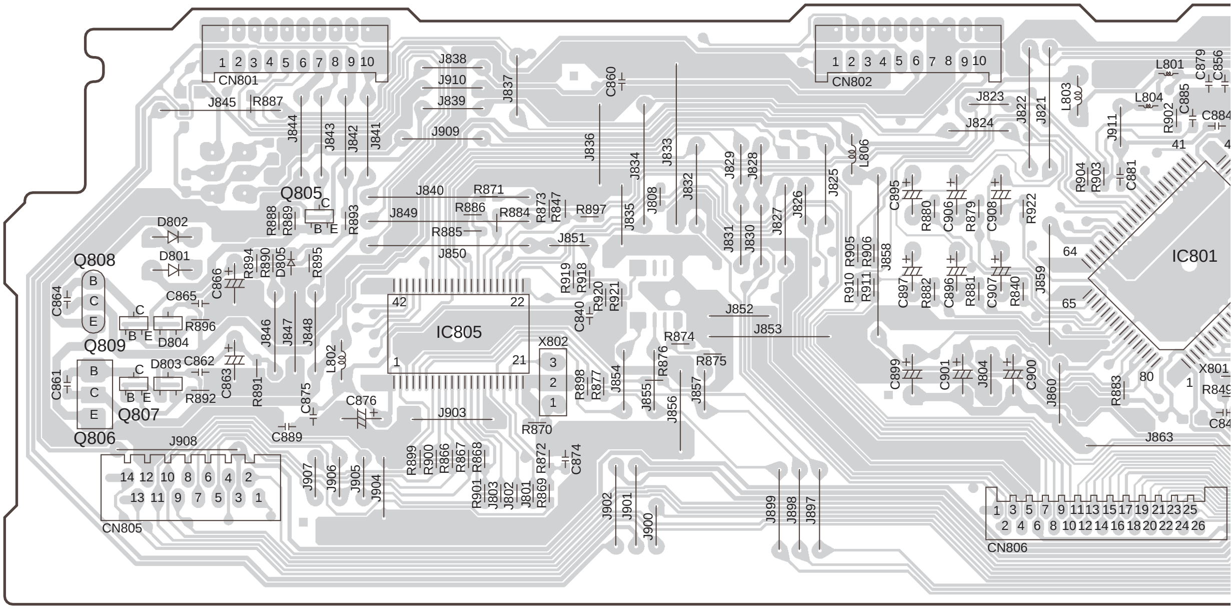
R730
R731
R732

A B C D E F G

1 2 3 4 5 6 7 8 9

E DSP P.C.B. (REP3144A)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R887
J844
J843
J842
J841
J836
J834
J833
J829
J828
J823
J824
J822
J821
L803
L801
L804
C879
C856
C885
R902
C884
J911
41
L806
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J826
J827
J832
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J830
J835
J808
Q805
C
B E
J840
R871
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R847
R886
R884
R897
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J851
J850
R888
R889
R893
D802
D801
Q808
B
C
E
C864
C865
C866
R894
R890
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21
X802
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R918
R920
R921
C840
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R876
R875
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J854
J855
J856
J857
R898
R877
R870
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C861
B
C
E
Q807
Q806
D803
C862
C863
R891
R892
C875
C876
C889
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J908
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13 11 9 7 5 3 1
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J899
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J804
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J860
R883
R904
R903
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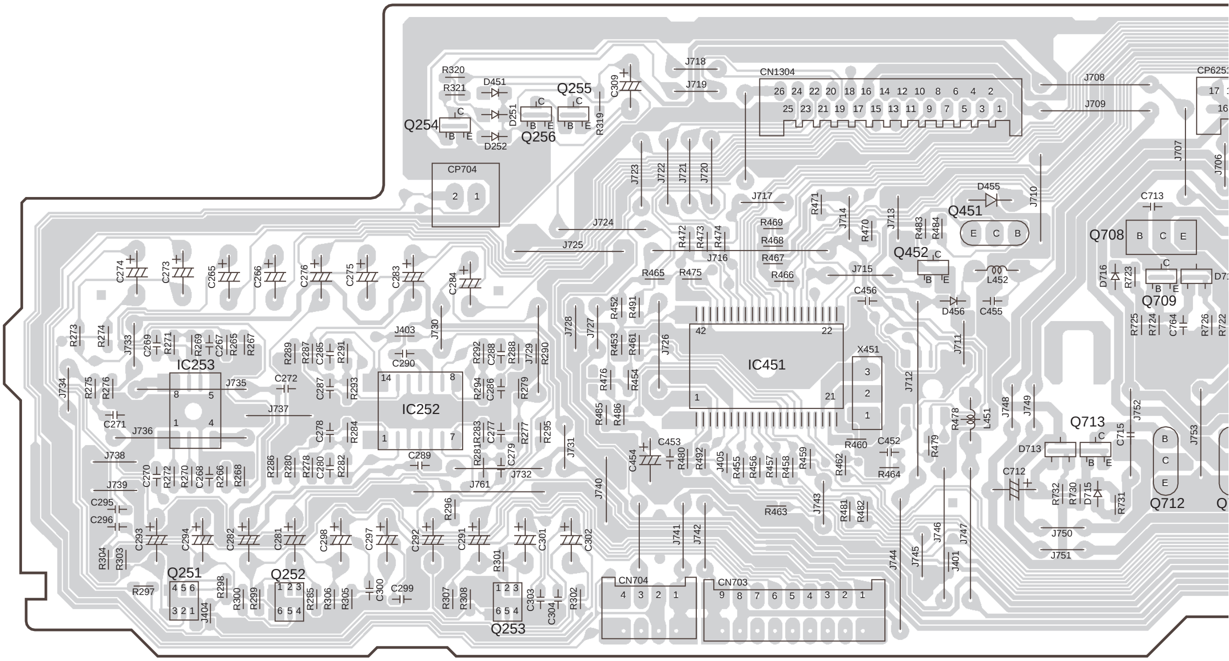
F DVD REG P.C.B. (REP3144A)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25 23 21 19 17 15 13 11 9 7 5 3 1
J708
J709
CP625
17
16
J707
J706
J723
J722
J721
J720
J717
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J714
R470
J713
R483
R484
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E C B
D455
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Q708
B C E
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R468
R467
R466
Q452
C
B E
L452
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R723
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R475
J715
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D456
C455
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C275
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R482
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R479
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3 2 1
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Q252
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6 5 4
R285
R306
R305
C300
C299
R307
R308
1 2 3
6 5 4
Q253
C303
C304
R302
CN704
4 3 2 1
J741
J742
CN703
9 8 7 6 5 4 3 2 1
J744
J745
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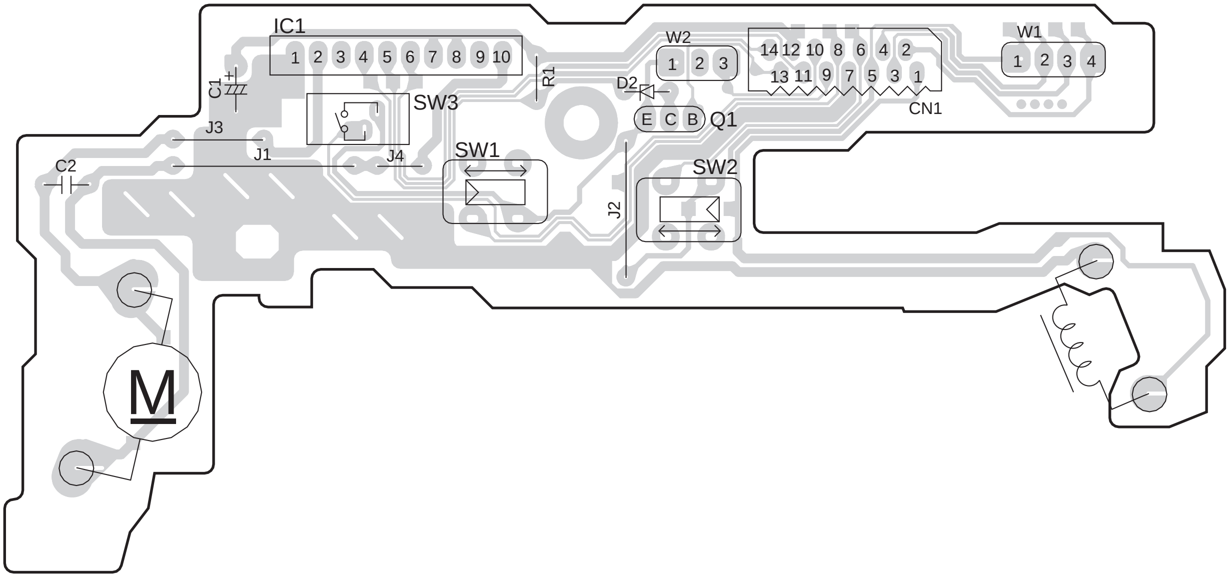
A B C D E F G

1 2 3 4 5 6 7 8 9

G CD LOADING P.C.B (REP2578A-N)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W1
1 2 3 4
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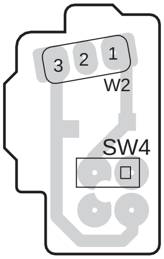
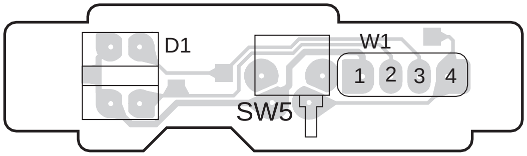
J4
C2
SW1
SW2
J2
M

I CD DETECT P.C.B (REP2578A-N)



H SPINDLE POSITION P.C.B (REP2578A-N)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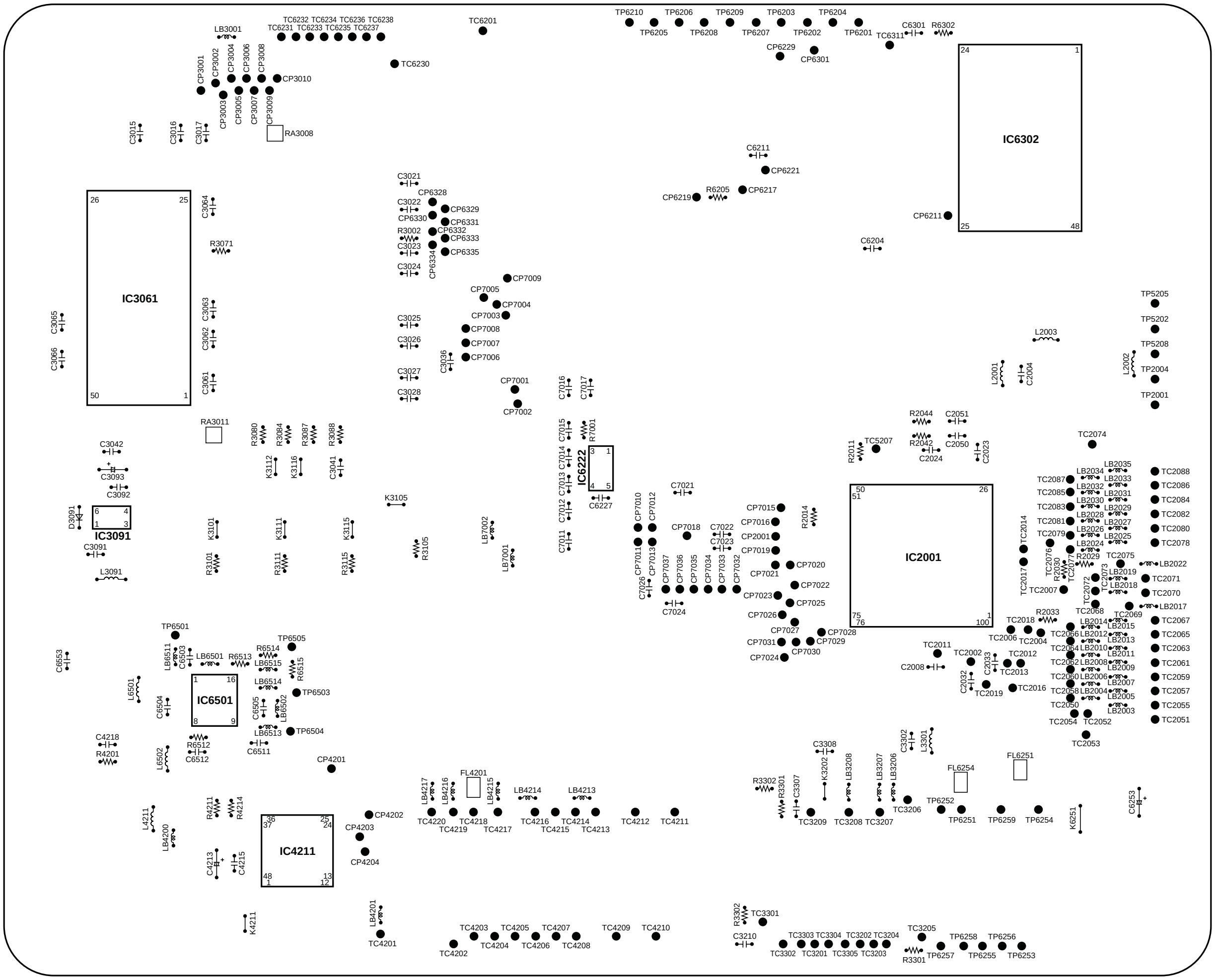
B DVD B/E MODULE (2/2) P.C.B (REP3098K)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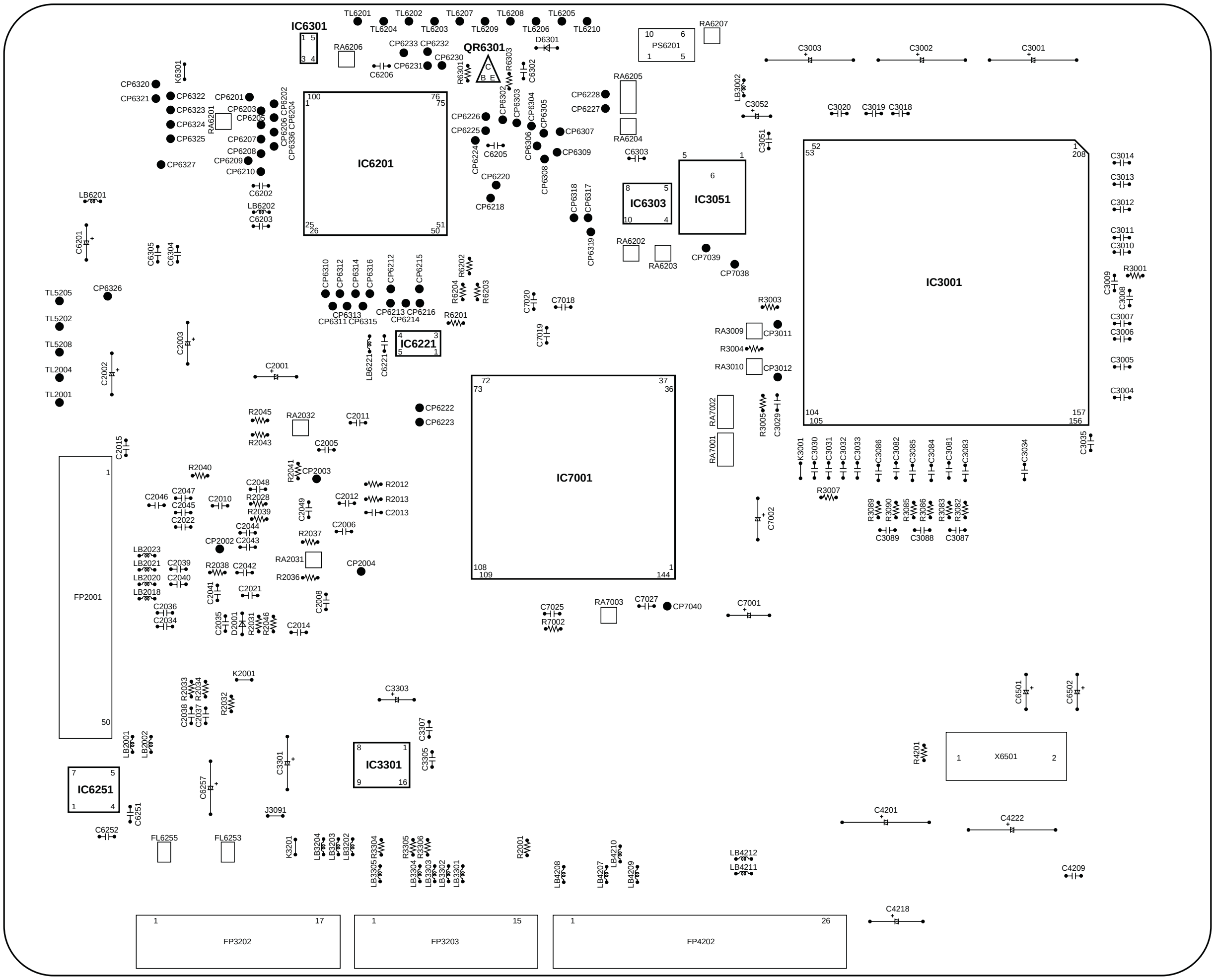
B DVD B/E MODULE (1/2) P.C.B (REP3098K)



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RA6204
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CP6213
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LB6221
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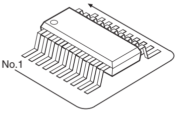
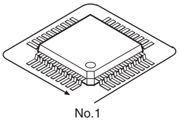
R2032
C2038
C2037
C3303
C3307
C3305
C3301
IC3301
LB2001
LB2002
C6257
IC6251
C6251
C6252
J3091
FL6255
FL6253
K3201
LB3204
LB3203
LB3202
R3304
LB3305
R3305
R3306
LB3304
LB3303
LB3302
LB3301
R2001
LB4208
LB4207
LB4210
LB4209
LB4212
LB4211
FP3202
FP3203
FP4202
C3003
C3002
C3001
LB3002
C3052
C3051
C3020
C3019
C3018
IC3001
C3014
C3013
C3012
C3011
C3010
R3001
C3009
C3008
C3007
C3006
C3005
C3004
R3003
RA3009
CP3011
R3004
RA3010
CP3012
RA7002
RA7001
R3005
C3029
C3035
K3001
C3030
C3031
C3032
C3033
C3086
C3082
C3085
C3084
C3081
C3083
C3034
R3007
C7002
R3089
R3090
R3085
R3086
R3083
R3082
C3089
C3088
C3087
C6501
C6502
R4201
X6501
C4201
C4222
C4209
C4218

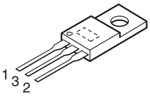


BU4053BCFE2	16PIN
C0CBCBD00002	6PIN
C1AB00001393	16PIN
C1DB00000582	16PIN
C2BBFD000307	42PIN
KIA4558FEL	8PIN
KM416S1DTG8T	50PIN
M5228FPE1	14PIN
M62444FPE1	42PIN
NJU7313AMT	30PIN

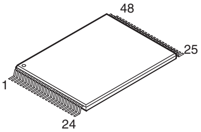


AN8708FHK	64PIN
MN677533MP	208PIN
MN67706EC	100PIN
MN103S13BGA	144PIN
MN102H60GFA	100PIN
C0FBBK000021	48PIN
C2HBZC000012	80PIN
C2BBFD000308	42PIN
C2BBGF000278	100PIN

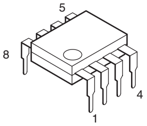
LM2940T5M



RFKFR45C040



M5218AP



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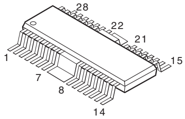
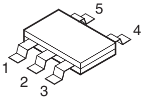
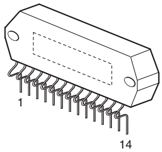

28
22
21
1
15
7
8
14

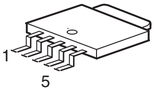
PST596JNR
C0JBAA000001



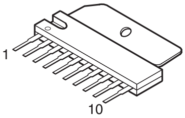
STK470-050A



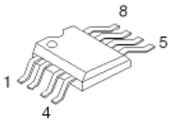
PQ1CZ31H2ZP
PQ018EZ01ZP



TA7291P



C3EBEC000024



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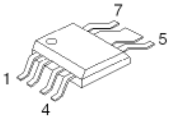
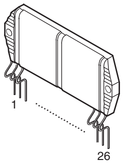
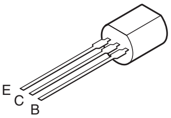
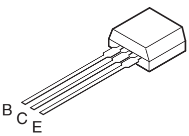


RSN311W64B-P



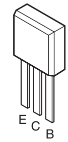
2SB621ARTA
2SB621ARSTA



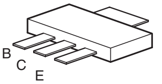


RVTDTC124EST
RVTDTC143EST
2SA933SSTA
2SD2144STA

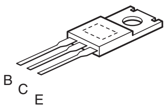
2SD1020HTA



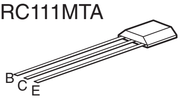
2SB1115-T1

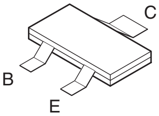


KTA1046YU



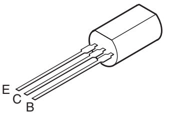
KRA102MTA
KRA111MTA
KRC102MTA
KRC114MTA
KTC3199GRTA
KRC111MTA



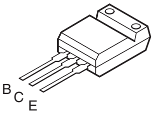


2SC2412KT96R
2SA1037AKSTX
DTA114EKA146
DTC114YKA146
2SD2114K1V
UN2121-TX
UN5212TX

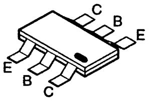
2SC3940AQSTA



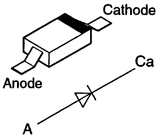
2SB1417PQTA



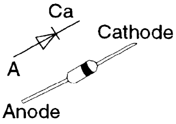
IMX9T110



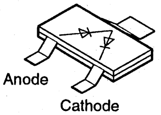
MA111TX
1SS355TE17
1SS380TE-17


Cathode
Ca
Anode
A

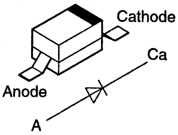
MA728TX


Ca
Cathode
A
Anode

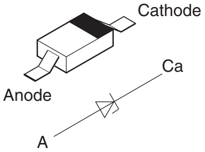
DA204KT146


Anode
Cathode

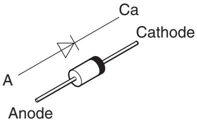
SFPB-72V


Cathode
Ca
Anode
A

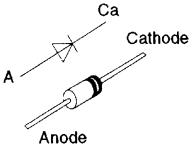
UDZSTE175R1B
UDZSTE175R6B
UDZSTE179R1B

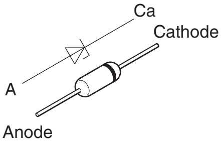

Cathode
Ca
Anode
A

RL1N4003N02
1N5402BM21
1D3E


Ca
Cathode
A
Anode

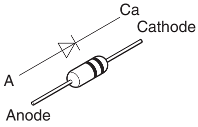
RK306LFU1


Ca
Cathode
A
Anode

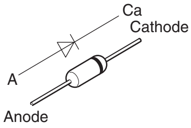

Ca
Cathode
A
Anode

MTZJ27DTA
MTZJ4R7BTA
MTZJ5R1BTA
MTZJ6R8ATA
MTZJ9R1BTA

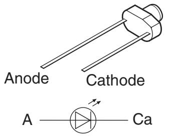
MA700ATA
MA729TX


Ca
Cathode
A
Anode

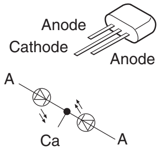
RVD1SS133TA

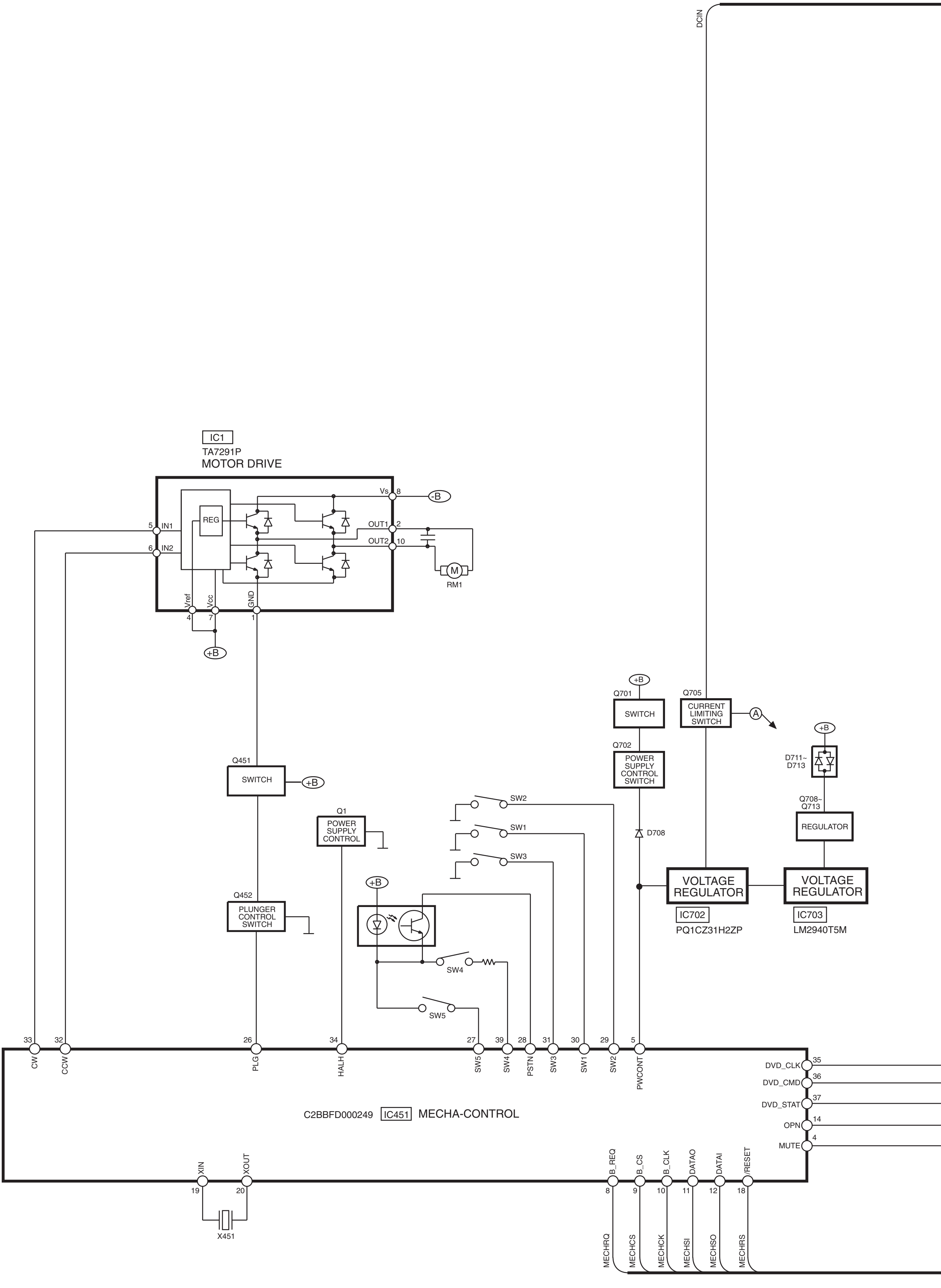

Ca
Cathode
A
Anode

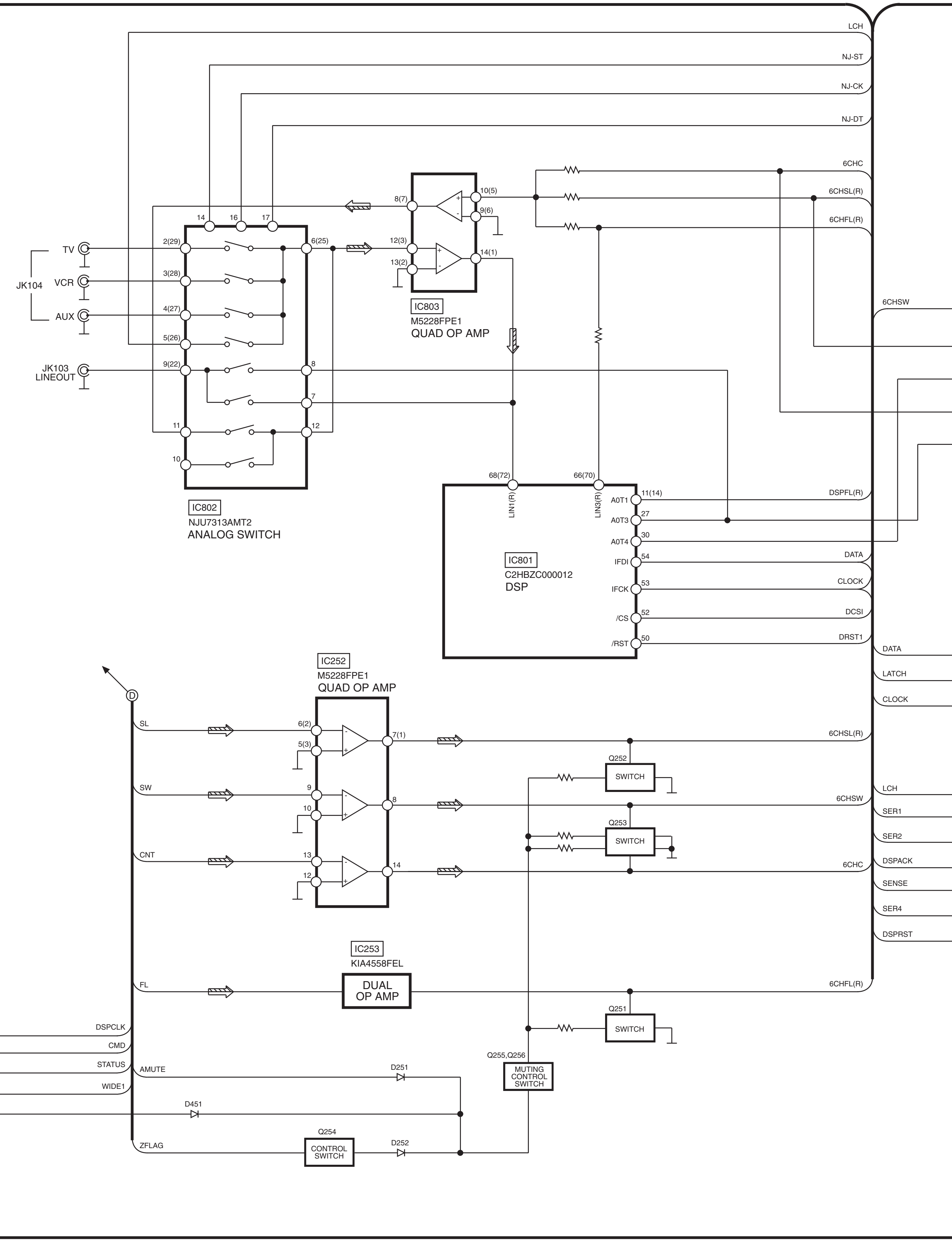
SLR325MCT31W
SLR325VCT31
SELS5823C

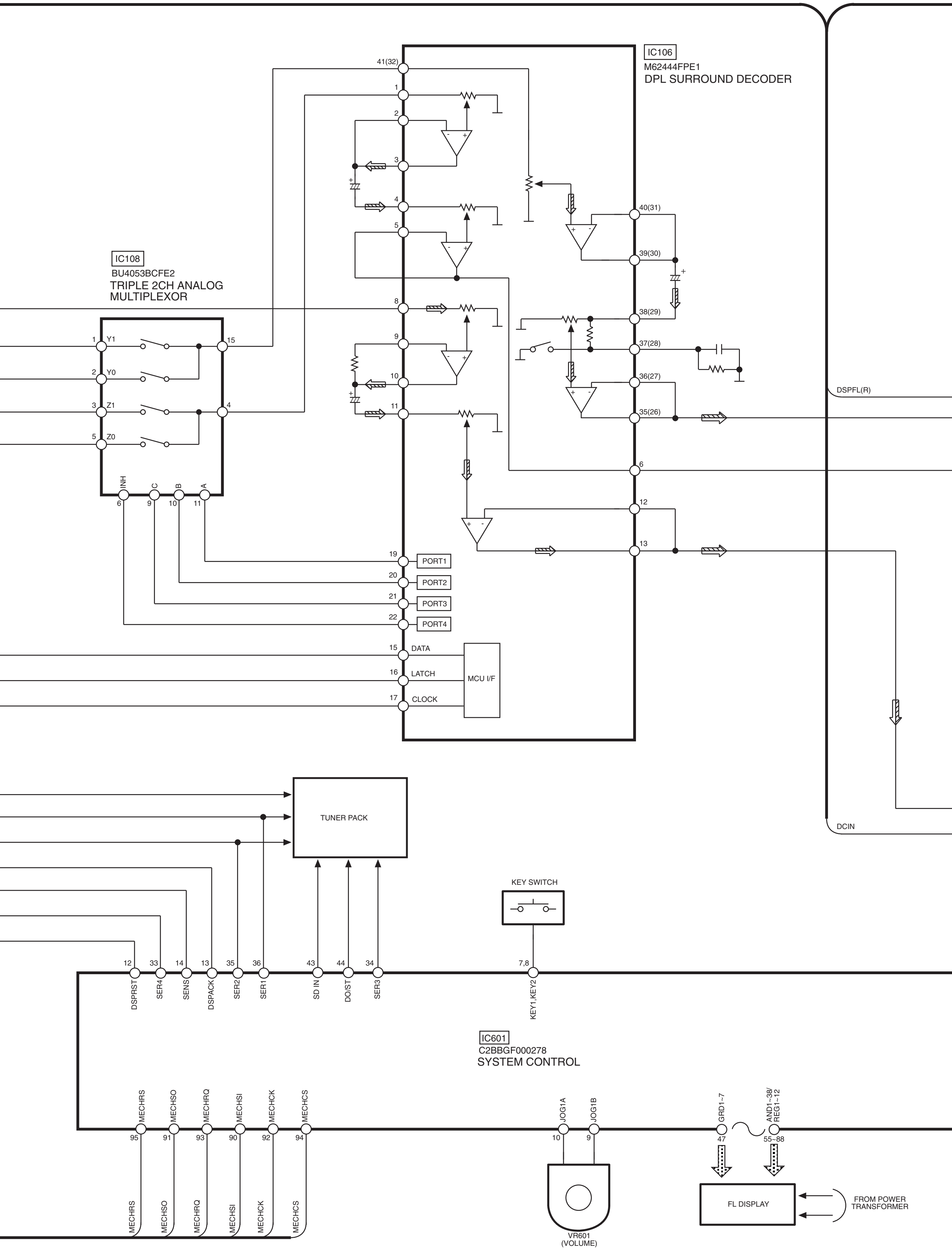

Anode
Cathode
A
Ca

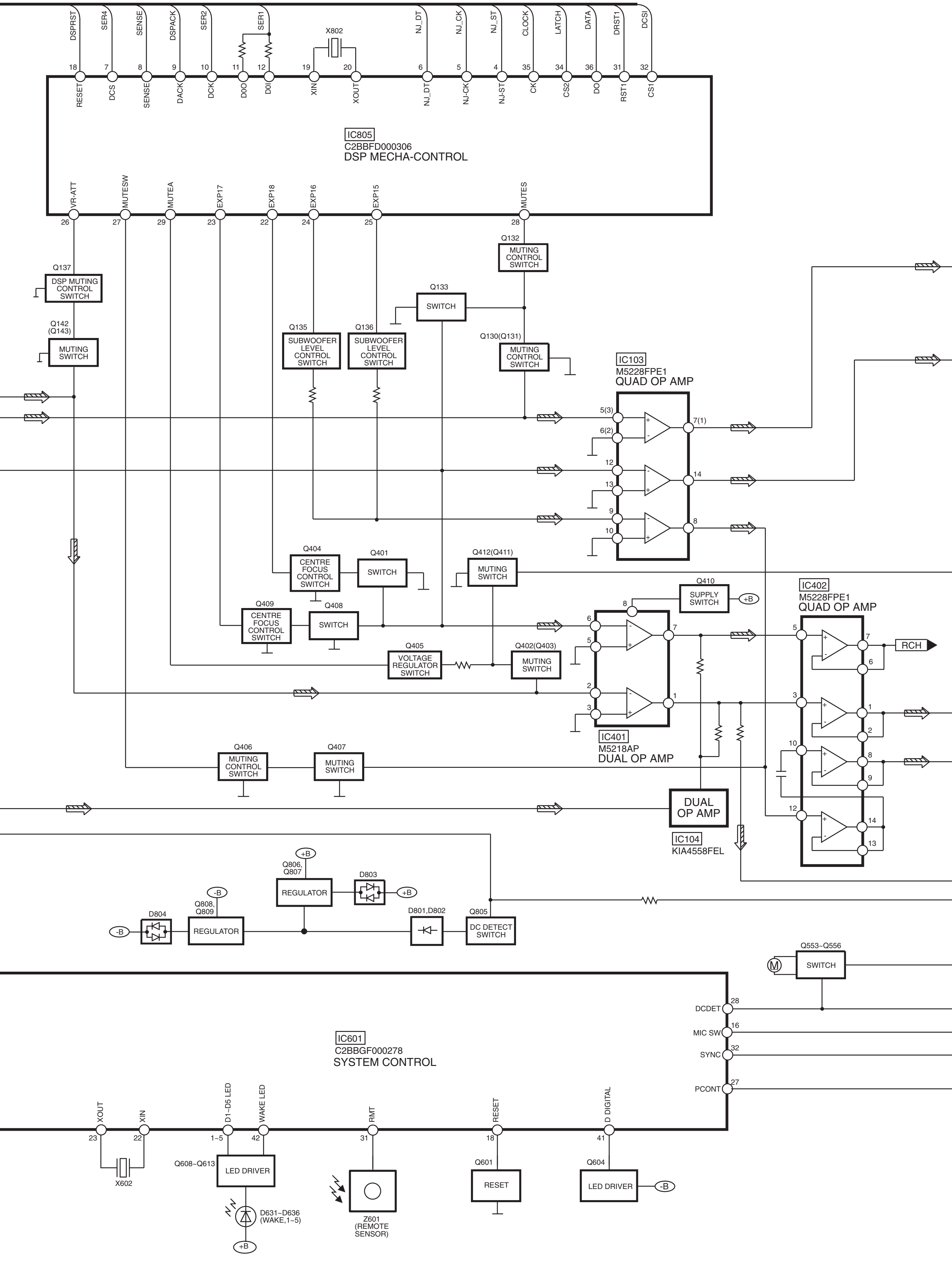
SML72755C

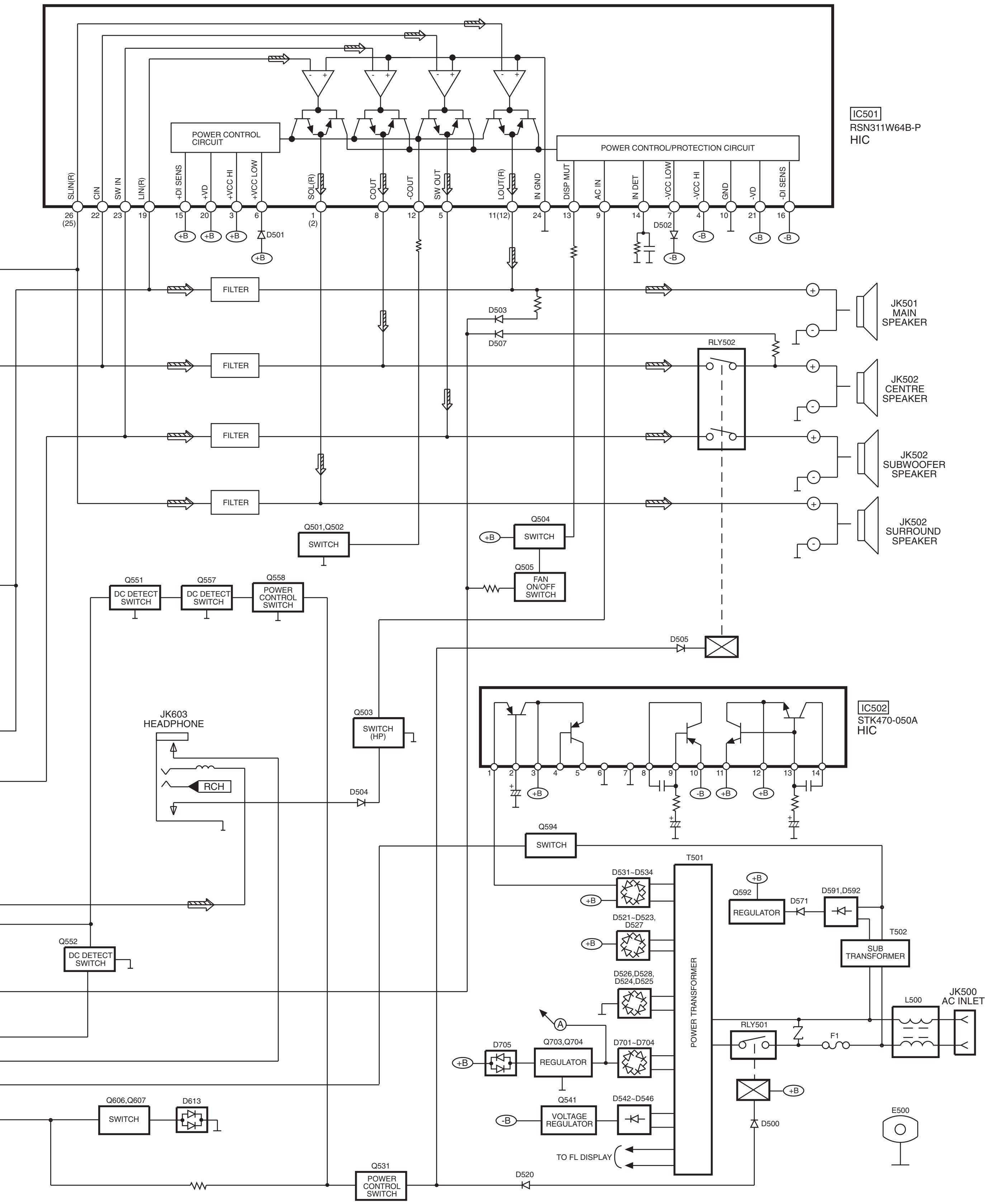

Anode
Cathode
Anode
A
Ca
A


DCIN
IC1
TA7291P
MOTOR DRIVE
REG
Vs
8
-B
5
IN1
6
IN2
OUT1
2
OUT2
10
M
RM1
Vref
Vcc
GND
4
7
1
+B
Q451
SWITCH
+B
Q452
PLUNGER CONTROL SWITCH
Q1
POWER SUPPLY CONTROL
+B
SW4
SW5
SW2
SW1
SW3
+B
Q701
SWITCH
Q702
POWER SUPPLY CONTROL SWITCH
D708
Q705
CURRENT LIMITING SWITCH
A
+B
D711~
D713
Q708~
Q713
REGULATOR
VOLTAGE REGULATOR
IC702
PQ1CZ31H2ZP
VOLTAGE REGULATOR
IC703
LM2940T5M
33
32
26
34
27
39
28
31
30
29
5
CW
CCW
PLG
HALH
SW5
SW4
PSTN
SW3
SW1
SW2
PWCONT
DVD_CLK
35
DVD_CMD
36
DVD_STAT
37
OPN
14
MUTE
4
C2BBFD000249
IC451
MECHA-CONTROL
XIN
XOUT
19
20
X451
B_REQ
B_CS
B_CLK
DATAO
DATAI
/RESET
8
9
10
11
12
18
MECHRQ
MECHCS
MECHCK
MECHSI
MECHSO
MECHRS


LCH
NJ-ST
NJ-CK
NJ-DT
6CHC
6CHSL(R)
6CHFL(R)
6CHSW
14
16
17
8(7)
10(5)
9(6)
12(3)
13(2)
14(1)
2(29)
6(25)
TV
JK104
VCR
3(28)
AUX
4(27)
5(26)
JK103
LINEOUT
9(22)
8
7
11
12
10
IC803
M5228FPE1
QUAD OP AMP
IC802
NJU7313AMT2
ANALOG SWITCH
68(72)
66(70)
LIN1(R)
LIN3(R)
A0T1
11(14)
DSPFL(R)
A0T3
27
A0T4
30
IFDI
54
DATA
IFCK
53
CLOCK
/CS
52
DCSI
/RST
50
DRST1
IC801
C2HBZC000012
DSP
DATA
LATCH
CLOCK
IC252
M5228FPE1
QUAD OP AMP
D
SL
6(2)
5(3)
7(1)
6CHSL(R)
Q252
SWITCH
SW
9
10
8
LCH
6CHSW
SER1
Q253
SWITCH
SER2
CNT
13
12
14
DSPACK
6CHC
SENSE
SER4
DSPRST
IC253
KIA4558FEL
DUAL
OP AMP
FL
6CHFL(R)
Q251
SWITCH
DSPCLK
CMD
Q255,Q256
STATUS
AMUTE
D251
MUTING
CONTROL
SWITCH
WIDE1
D451
Q254
ZFLAG
CONTROL
SWITCH
D252


IC106
M62444FPE1
DPL SURROUND DECODER
41(32)
1
2
3
4
5
8
9
10
11
40(31)
39(30)
38(29)
37(28)
36(27)
35(26)
6
12
13
19
20
21
22
PORT1
PORT2
PORT3
PORT4
15
16
17
DATA
LATCH
CLOCK
MCU I/F
IC108
BU4053BCFE2
TRIPLE 2CH ANALOG
MULTIPLEXOR
1 Y1
2 Y0
3 Z1
5 Z0
15
4
INH 6
C 9
B 10
A 11
DSPFL(R)
DCIN
TUNER PACK
KEY SWITCH
12 DSPRST
33 SER4
14 SENS
13 DSPACK
35 SER2
36 SER1
43 SD IN
44 DO/ST
34 SER3
7,8 KEY1,KEY2
IC601
C2BBGF000278
SYSTEM CONTROL
95 MECHRS
91 MECHSO
93 MECHRQ
90 MECHSI
92 MECHCK
94 MECHCS
10 JOG1A
9 JOG1B
47 GRD1~7
55~88 AND1~38/REG1~12
MECHRS
MECHSO
MECHRQ
MECHSI
MECHCK
MECHCS
VR601
(VOLUME)
FL DISPLAY
FROM POWER
TRANSFORMER

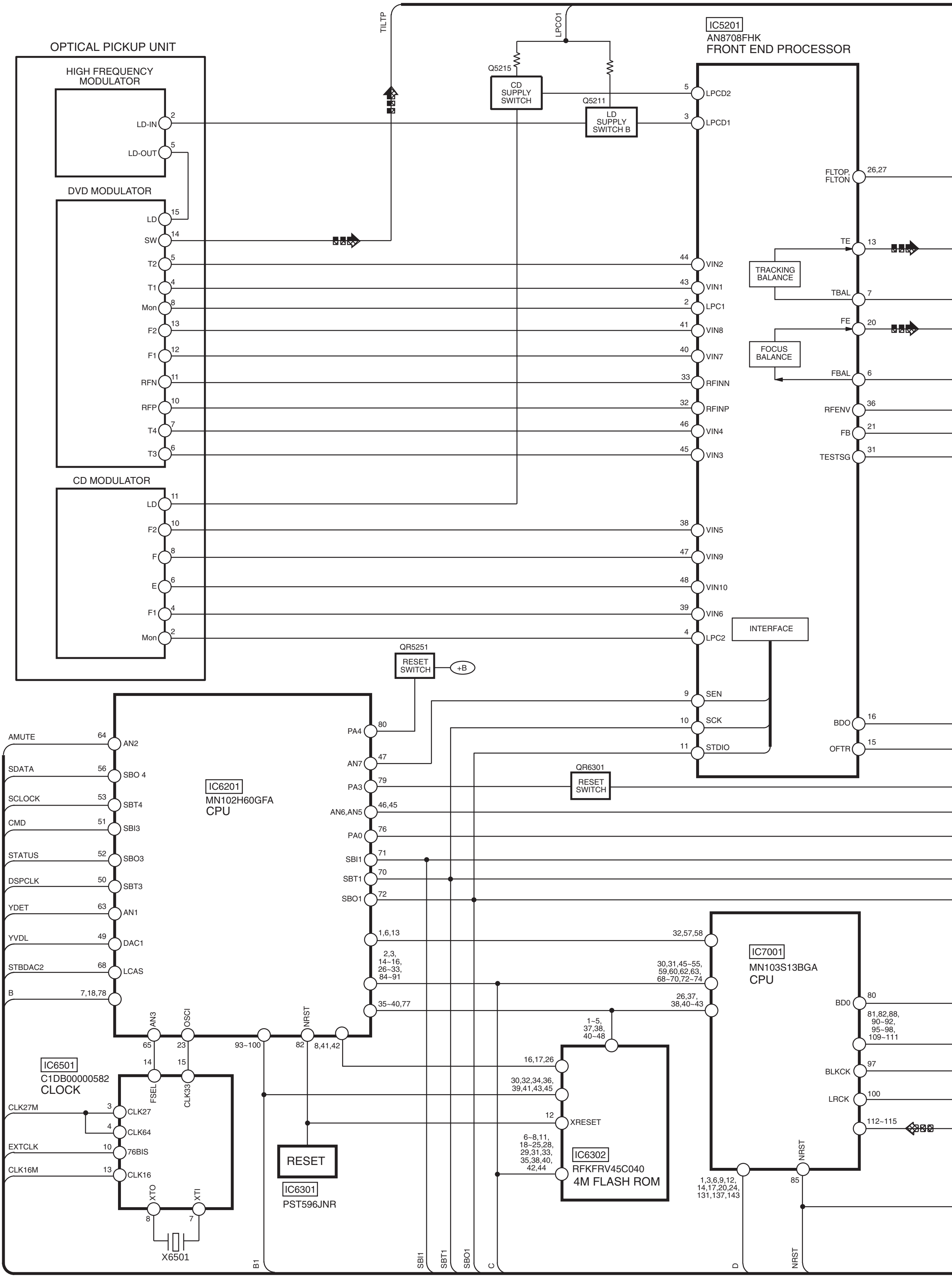

DSPRST
SER4
SENSE
DSPACK
SER2
SER1
X802
NJ_DT
NJ_CK
NJ_ST
CLOCK
LATCH
DATA
DRST1
DCSI
18
7
8
9
10
11
12
19
20
6
5
4
35
34
36
31
32
RESET
DCS
SENSE
DACK
DCK
DOO
DOI
XIN
XOUT
NJ_DT
NJ-CK
NJ-ST
CK
CS2
DO
RST1
CS1
IC805
C2BBFD000306
DSP MECHA-CONTROL
VR-ATT
MUTESW
MUTEA
EXP17
EXP18
EXP16
EXP15
MUTES
26
27
29
23
22
24
25
28
Q132
MUTING CONTROL SWITCH
Q137
DSP MUTING CONTROL SWITCH
Q133
SWITCH
Q142 (Q143)
MUTING SWITCH
Q135
SUBWOOFER LEVEL CONTROL SWITCH
Q136
SUBWOOFER LEVEL CONTROL SWITCH
Q130(Q131)
MUTING CONTROL SWITCH
IC103
M5228FPE1
QUAD OP AMP
5(3)
6(2)
7(1)
12
13
14
9
10
8
Q404
CENTRE FOCUS CONTROL SWITCH
Q401
SWITCH
Q412(Q411)
MUTING SWITCH
Q410
SUPPLY SWITCH
+B
IC402
M5228FPE1
QUAD OP AMP
Q409
CENTRE FOCUS CONTROL SWITCH
Q408
SWITCH
8
6
5
7
2
3
1
Q405
VOLTAGE REGULATOR SWITCH
Q402(Q403)
MUTING SWITCH
IC401
M5218AP
DUAL OP AMP
5
7
6
RCH
3
1
2
10
8
9
12
14
13
Q406
MUTING CONTROL SWITCH
Q407
MUTING SWITCH
DUAL OP AMP
IC104
KIA4558FEL
+B
Q806, Q807
REGULATOR
D803
+B
-B
Q808, Q809
D804
-B
REGULATOR
D801,D802
Q805
DC DETECT SWITCH
Q553~Q556
M
SWITCH
DCDET
28
MIC SW
16
SYNC
32
PCONT
27
IC601
C2BBGF000278
SYSTEM CONTROL
XOUT
XIN
D1~D5 LED
WAKE LED
RMT
RESET
D DIGITAL
23
22
1~5
42
31
18
41
X602
Q608~Q613
LED DRIVER
D631~D636 (WAKE,1~5)
+B
Z601 (REMOTE SENSOR)
Q601
RESET
Q604
LED DRIVER
-B

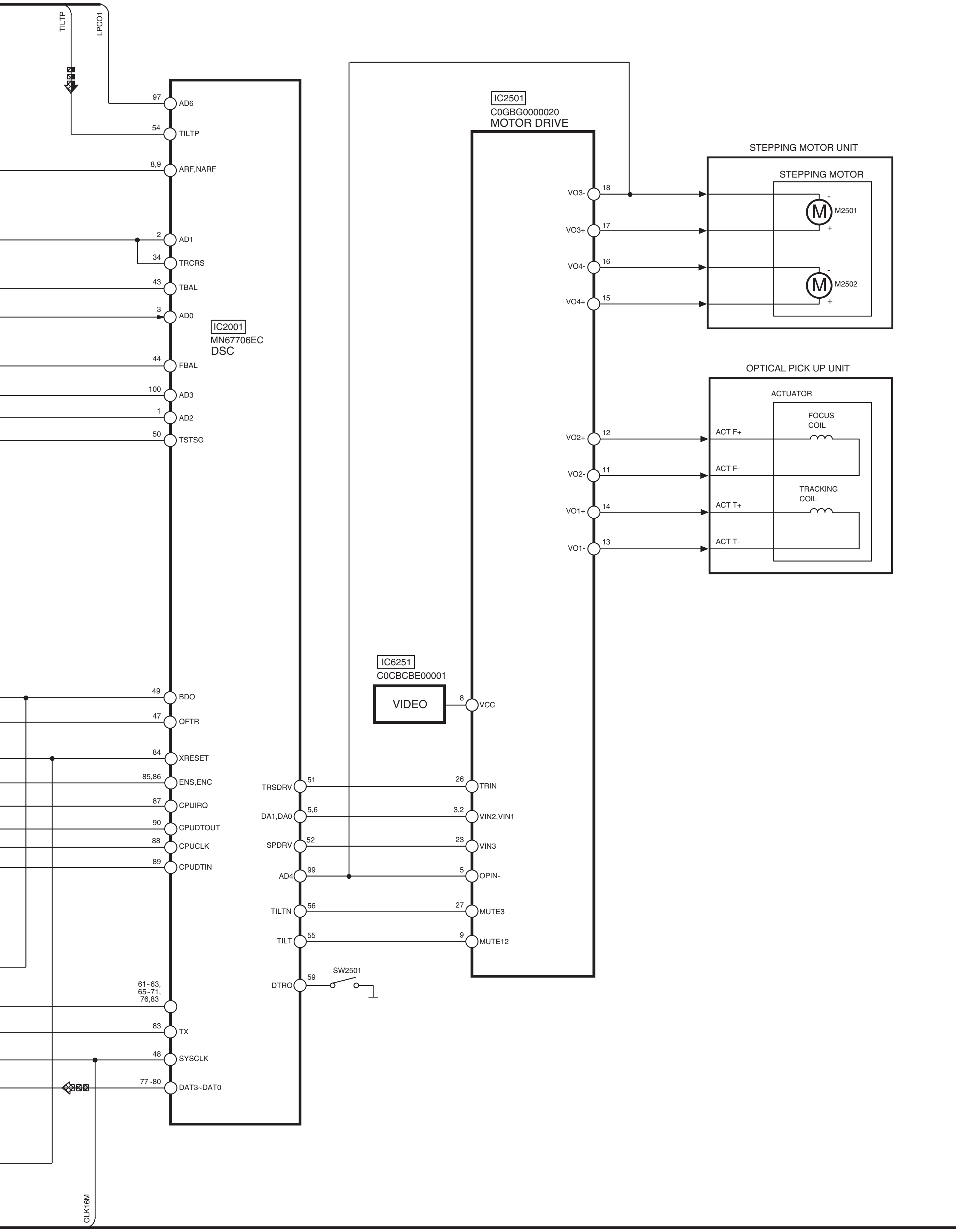

IC501
RSN311W64B-P
HIC
POWER CONTROL CIRCUIT
POWER CONTROL/PROTECTION CIRCUIT
SLIN(R)
CIN
SW IN
LIN(R)
+DI SENS
+VD
+VCC HI
+VCC LOW
SOL(R)
COUT
-COUT
SW OUT
LOUT(R)
IN GND
DISP MUT
AC IN
IN DET
-VCC LOW
-VCC HI
GND
-VD
-DI SENS
26 (25)
22
23
19
15
20
3
6
1 (2)
8
12
5
11(12)
24
13
9
14
7
4
10
21
16
+B
D501
D502
-B
FILTER
FILTER
FILTER
FILTER
D503
D507
RLY502
JK501 MAIN SPEAKER
JK502 CENTRE SPEAKER
JK502 SUBWOOFER SPEAKER
JK502 SURROUND SPEAKER
Q501,Q502
SWITCH
Q504
SWITCH
Q505
FAN ON/OFF SWITCH
Q551
DC DETECT SWITCH
Q557
DC DETECT SWITCH
Q558
POWER CONTROL SWITCH
D505
Q503
SWITCH (HP)
JK603
HEADPHONE
RCH
D504
IC502
STK470-050A
HIC
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Q594
SWITCH
T501
POWER TRANSFORMER
D531~D534
D521~D523, D527
D526,D528, D524,D525
Q592
REGULATOR
D571
D591,D592
T502
SUB TRANSFORMER
L500
JK500
AC INLET
RLY501
F1
Q552
DC DETECT SWITCH
A
D705
Q703,Q704
REGULATOR
D701~D704
Q541
VOLTAGE REGULATOR
D542~D546
D500
E500
TO FL DISPLAY
Q606,Q607
SWITCH
D613
Q531
POWER CONTROL SWITCH
D520

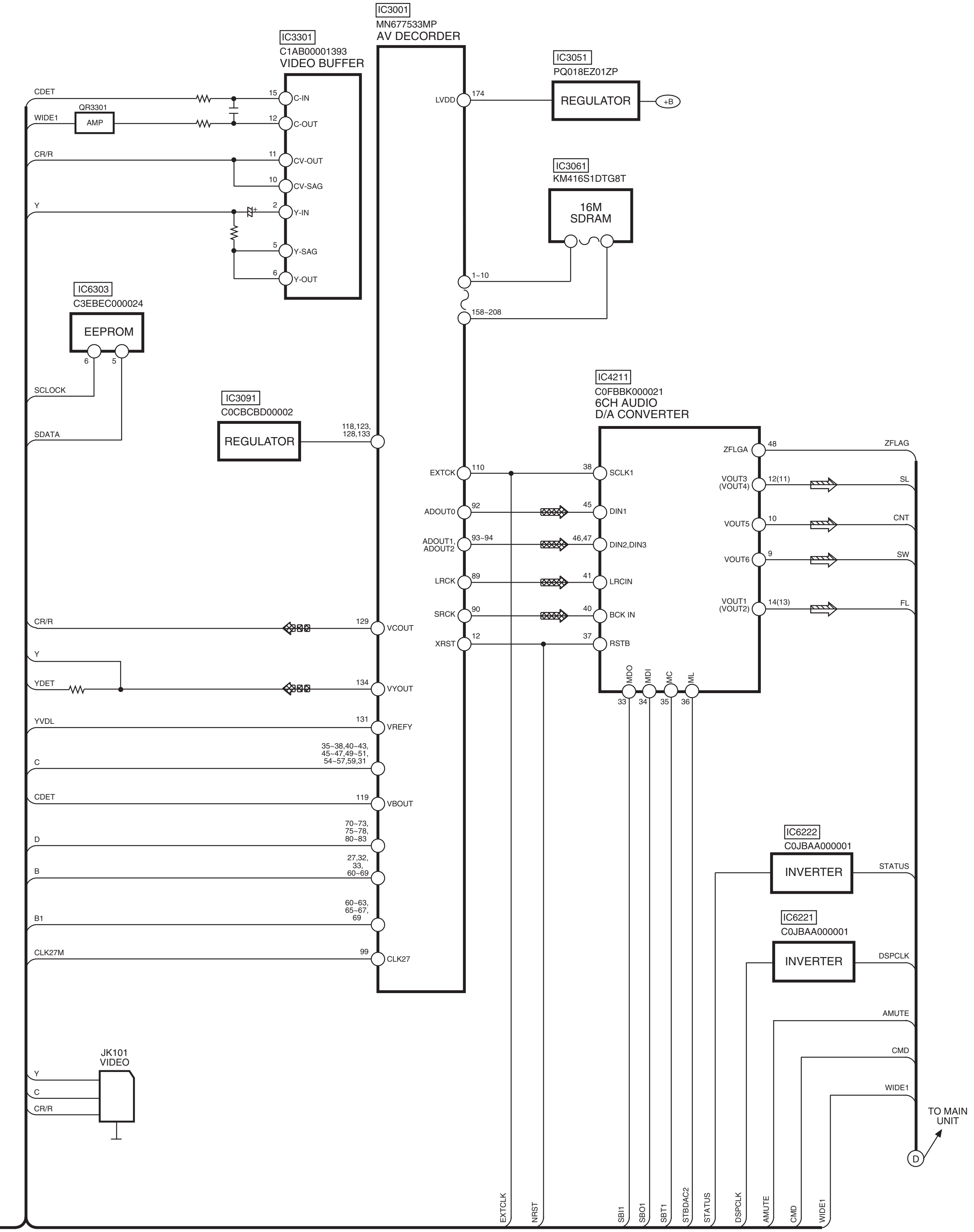
SIGNAL LINES

⇨ MAIN SIGNAL LINE
⇨ CD/DVD AUDIO SIGNAL LINE
⇨ DVD VIDEO SIGNAL LINE
⇨ DVD AUDIO/VIDEO SIGNAL LINE

( ) indicates Right Channel Pin No.


OPTICAL PICKUP UNIT
HIGH FREQUENCY MODULATOR
LD-IN 2
LD-OUT 5
DVD MODULATOR
LD 15
SW 14
T2 5
T1 4
Mon 8
F2 13
F1 12
RFN 11
RFP 10
T4 7
T3 6
CD MODULATOR
LD 11
F2 10
F 8
E 6
F1 4
Mon 2
TILTP
LPCO1
Q5215
CD SUPPLY SWITCH
Q5211
LD SUPPLY SWITCH B
IC5201
AN8708FHK
FRONT END PROCESSOR
5 LPCD2
3 LPCD1
44 VIN2
43 VIN1
2 LPC1
41 VIN8
40 VIN7
33 RFINN
32 RFINP
46 VIN4
45 VIN3
38 VIN5
47 VIN9
48 VIN10
39 VIN6
4 LPC2
9 SEN
10 SCK
11 STDIO
FLTOP, FLTON 26,27
TE 13
TRACKING BALANCE
TBAL 7
FE 20
FOCUS BALANCE
FBAL 6
RFENV 36
FB 21
TESTSG 31
BDO 16
OFTR 15
INTERFACE
QR5251
RESET SWITCH
+B
IC6201
MN102H60GFA
CPU
AMUTE 64 AN2
SDATA 56 SBO 4
SCLOCK 53 SBT4
CMD 51 SBI3
STATUS 52 SBO3
DSPCLK 50 SBT3
YDET 63 AN1
YVDL 49 DAC1
STBDAC2 68 LCAS
B 7,18,78
PA4 80
AN7 47
PA3 79
AN6,AN5 46,45
PA0 76
SBI1 71
SBT1 70
SBO1 72
1,6,13
2,3, 14~16, 26~33, 84~91
35~40,77
AN3 65
OSCI 23
93~100
NRST 82
8,41,42
QR6301
RESET SWITCH
IC6501
C1DB00000582
CLOCK
14 FSEL
15 CLK33
CLK27M 3 CLK27
4 CLK64
EXTCLK 10 76BIS
CLK16M 13 CLK16
XTO 8
XTI 7
X6501
RESET
IC6301
PST596JNR
1~5, 37,38, 40~48
16,17,26
30,32,34,36, 39,41,43,45
12 XRESET
6~8,11, 18~25,28, 29,31,33, 35,38,40, 42,44
IC6302
RFKFRV45C040
4M FLASH ROM
32,57,58
30,31,45~55, 59,60,62,63, 68~70,72~74
26,37, 38,40~43
IC7001
MN103S13BGA
CPU
BD0 80
81,82,88, 90~92, 95~98, 109~111
BLKCK 97
LRCK 100
112~115
1,3,6,9,12, 14,17,20,24, 131,137,143
NRST 85
B1
SBI1
SBT1
SBO1
C
D
NRST

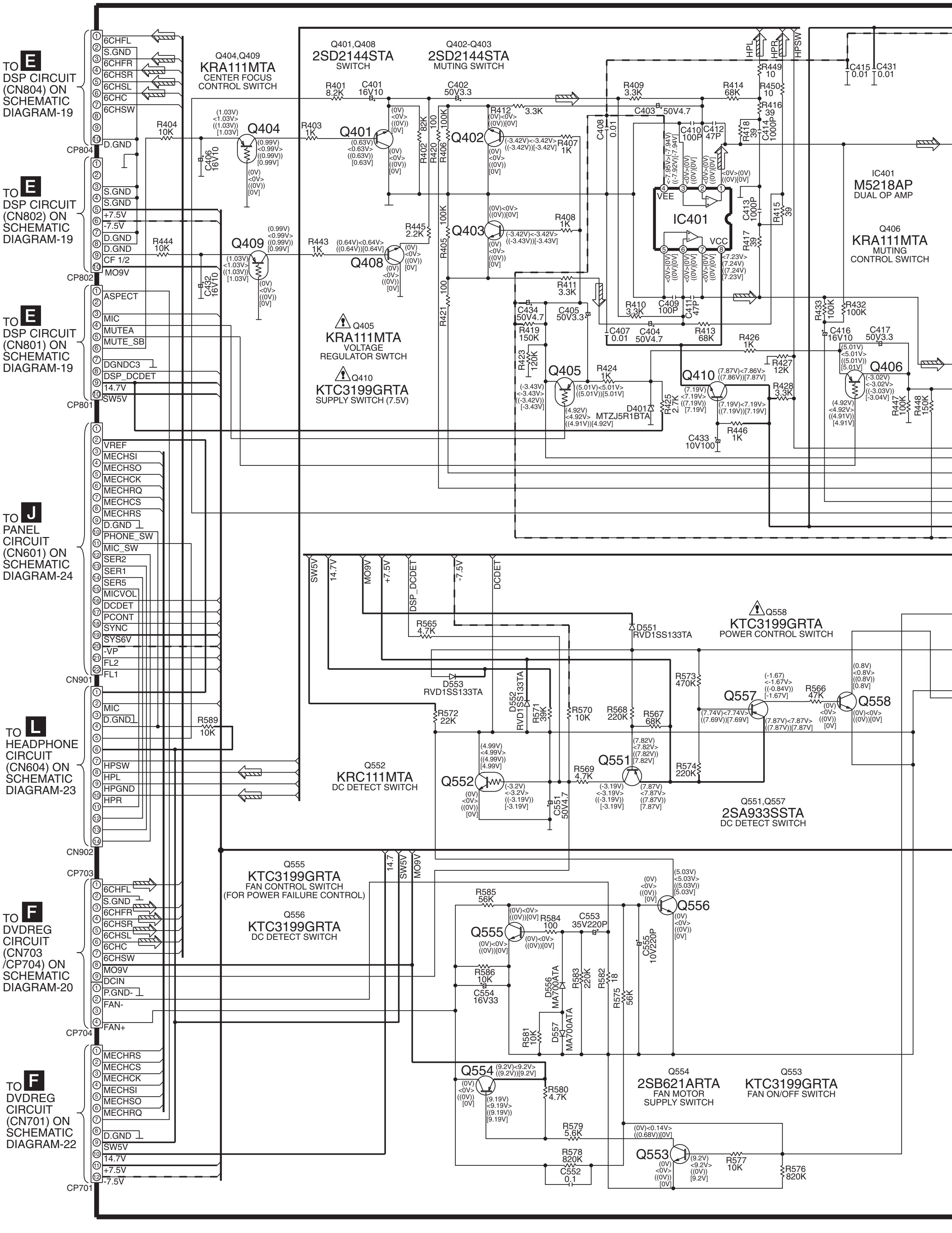

TILTP
LPCO1
97 AD6
54 TILTP
8,9 ARF,NARF
2 AD1
34 TRCRS
43 TBAL
3 AD0
IC2001
MN67706EC
DSC
44 FBAL
100 AD3
1 AD2
50 TSTSG
49 BDO
47 OFTR
84 XRESET
85,86 ENS,ENC
87 CPUIRQ
90 CPUDTOUT
88 CPUCLK
89 CPUDTIN
61~63, 65~71, 76,83
83 TX
48 SYSCLK
77~80 DAT3~DAT0
CLK16M
TRSDRV 51
DA1,DA0 5,6
SPDRV 52
AD4 99
TILTN 56
TILT 55
DTRO 59
SW2501
IC2501
C0GBG0000020
MOTOR DRIVE
VO3- 18
VO3+ 17
VO4- 16
VO4+ 15
VO2+ 12
VO2- 11
VO1+ 14
VO1- 13
IC6251
C0CBCBE00001
VIDEO
8 VCC
26 TRIN
3,2 VIN2,VIN1
23 VIN3
5 OPIN-
27 MUTE3
9 MUTE12
STEPPING MOTOR UNIT
STEPPING MOTOR
M
M2501
M
M2502
-
+
OPTICAL PICK UP UNIT
ACTUATOR
FOCUS COIL
TRACKING COIL
ACT F+
ACT F-
ACT T+
ACT T-


IC3301
C1AB00001393
VIDEO BUFFER
IC3001
MN677533MP
AV DECORDER
IC3051
PQ018EZ01ZP
REGULATOR
+B
IC3061
KM416S1DTG8T
16M
SDRAM
IC6303
C3EBEC000024
EEPROM
IC3091
C0CBCBD00002
REGULATOR
IC4211
C0FBBK000021
6CH AUDIO
D/A CONVERTER
IC6222
C0JBAA000001
INVERTER
IC6221
C0JBAA000001
INVERTER
JK101
VIDEO
QR3301
AMP
CDET
WIDE1
CR/R
Y
15 C-IN
12 C-OUT
11 CV-OUT
10 CV-SAG
2 Y-IN
5 Y-SAG
6 Y-OUT
LVDD 174
1~10
158~208
6
5
SCLOCK
SDATA
118,123,
128,133
EXTCK 110
ADOUT0 92
ADOUT1,
ADOUT2 93~94
LRCK 89
SRCK 90
XRST 12
38 SCLK1
45 DIN1
46,47 DIN2,DIN3
41 LRCIN
40 BCK IN
37 RSTB
ZFLGA 48
VOUT3
(VOUT4) 12(11)
VOUT5 10
VOUT6 9
VOUT1
(VOUT2) 14(13)
ZFLAG
SL
CNT
SW
FL
MDO 33
MDI 34
MC 35
ML 36
CR/R 129 VCOUT
Y
YDET 134 VYOUT
YVDL 131 VREFY
C 35~38,40~43,
45~47,49~51,
54~57,59,31
CDET 119 VBOUT
D 70~73,
75~78,
80~83
B 27,32,
33,
60~69
B1 60~63,
65~67,
69
CLK27M 99 CLK27
STATUS
DSPCLK
AMUTE
CMD
WIDE1
Y
C
CR/R
TO MAIN
UNIT
D
EXTCLK
NRST
SBI1
SBO1
SBT1
STBDAC2
STATUS
DSPCLK
AMUTE
CMD
WIDE1

SCHEMATIC DIAGRAM - 25

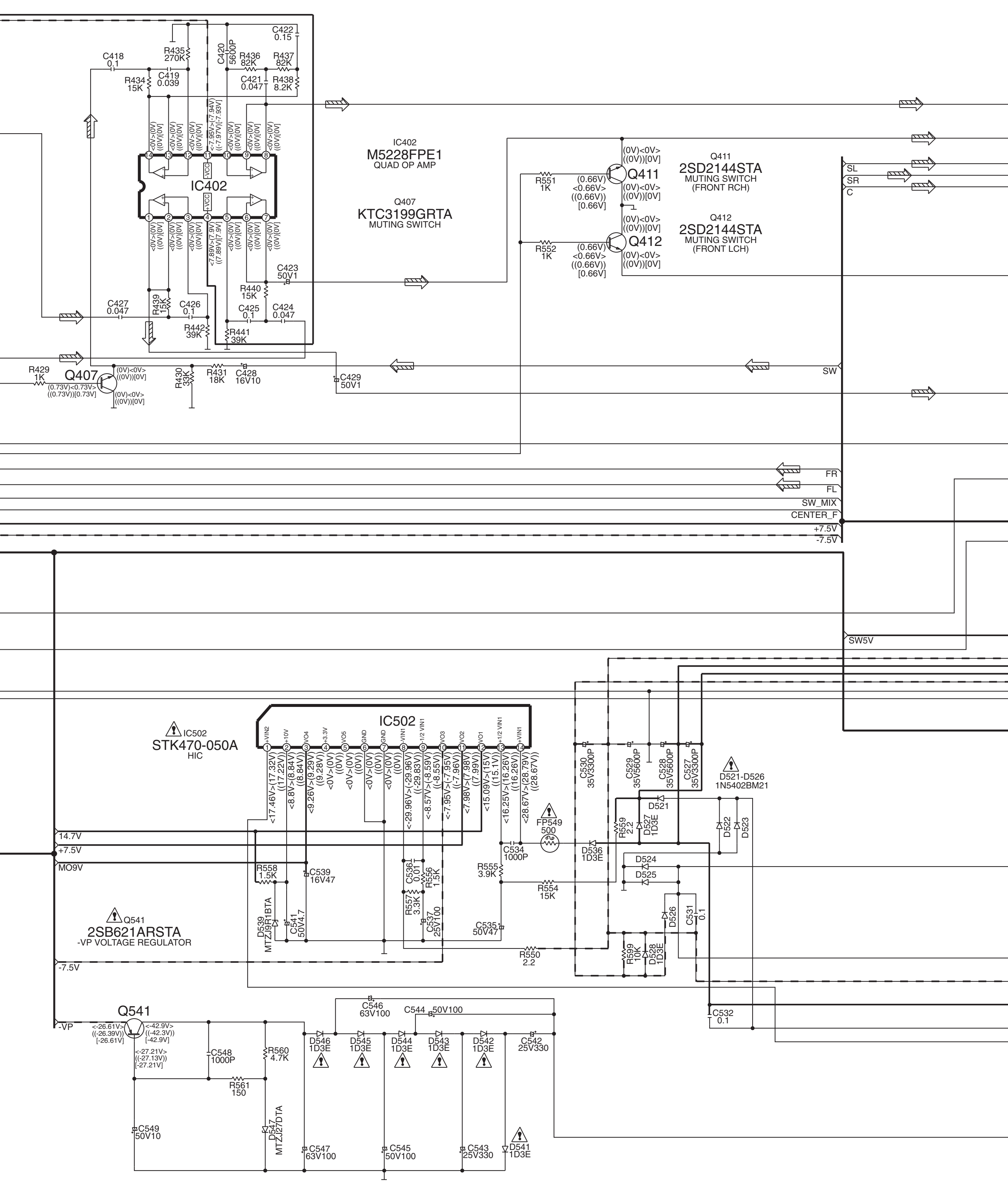
—— : +B SIGNAL LINE   – – : -B SIGNAL LINE

M MAIN CIRCUIT


TO E DSP CIRCUIT (CN804) ON SCHEMATIC DIAGRAM-19
6CHFL
S.GND
6CHFR
6CHSR
6CHSL
6CHC
6CHSW
D.GND
CP804
TO E DSP CIRCUIT (CN802) ON SCHEMATIC DIAGRAM-19
S.GND
S.GND
+7.5V
-7.5V
D.GND
D.GND
CF 1/2
MO9V
CP802
TO E DSP CIRCUIT (CN801) ON SCHEMATIC DIAGRAM-19
ASPECT
MIC
MUTEA
MUTE_SB
DGNDC3
DSP_DCDET
14.7V
SW5V
CP801
TO J PANEL CIRCUIT (CN601) ON SCHEMATIC DIAGRAM-24
VREF
MECHSI
MECHSO
MECHCK
MECHRQ
MECHCS
MECHRS
D.GND
PHONE_SW
MIC_SW
SER2
SER1
SER5
MICVOL
DCDET
PCONT
SYNC
SYS6V
-VP
FL2
FL1
CN901
TO L HEADPHONE CIRCUIT (CN604) ON SCHEMATIC DIAGRAM-23
MIC
D.GND
HPSW
HPL
HPGND
HPR
CN902
CP703
TO F DVDREG CIRCUIT (CN703 /CP704) ON SCHEMATIC DIAGRAM-20
6CHFL
S.GND
6CHFR
6CHSR
6CHSL
6CHC
6CHSW
MO9V
DCIN
P.GND-
FAN-
FAN+
CP704
TO F DVDREG CIRCUIT (CN701) ON SCHEMATIC DIAGRAM-22
MECHRS
MECHCS
MECHCK
MECHSI
MECHSO
MECHRQ
D.GND
SW5V
14.7V
+7.5V
-7.5V
CP701
Q404,Q409
KRA111MTA
CENTER FOCUS CONTROL SWITCH
Q401,Q408
2SD2144STA
SWITCH
Q402-Q403
2SD2144STA
MUTING SWITCH
R404 10K
R401 8.2K
C401 16V10
C402 50V3.3
R409 3.3K
R414 68K
R449 10
R450 10
R416 39
C415 0.01
C431 0.01
Q404
Q401
Q402
Q403
Q408
Q409
R403 1K
R412 3.3K
R407 1K
R408 1K
R402 82K
R420 100
R406 100K
R405 100K
R421 100
R445 2.2K
R443 1K
R444 10K
C406 16V10
C432 16V10
C403 50V4.7
C408 0.01
C410 100P
C412 47P
R418 39
C414 1000P
C413 1000P
R415 39
R417 39
IC401
VEE
VCC
IC401
M5218AP
DUAL OP AMP
Q406
KRA111MTA
MUTING CONTROL SWITCH
HPL
HPR
HPSW
R411 3.3K
C434 50V4.7
C405 50V3.3
R419 150K
R423 120K
R410 3.3K
C409 100P
C411 47P
C407 0.01
C404 50V4.7
R413 68K
R426 1K
R427 12K
R428 3.3K
R424 1K
R425 27K
R446 1K
C433 10V100
D401 MTZJ5R1BTA
Q405
Q410
R433 100K
R432 100K
C416 16V10
C417 50V3.3
R447 100K
R448 150K
Q405 KRA111MTA VOLTAGE REGULATOR SWTCH
Q410 KTC3199GRTA SUPPLY SWITCH (7.5V)
SW5V
14.7V
MO9V
+7.5V
DSP_DCDET
-7.5V
DCDET
R565 4.7K
D551 RVD1SS133TA
D553 RVD1SS133TA
D552 RVD1SS133TA
Q558 KTC3199GRTA POWER CONTROL SWITCH
R572 22K
R571 39K
R570 10K
R568 220K
R567 68K
R573 470K
R566 47K
R574 220K
R569 4.7K
R589 10K
Q552 KRC111MTA DC DETECT SWITCH
Q552
Q551
Q557
Q558
C551 50V4.7
Q551,Q557 2SA933SSTA DC DETECT SWITCH
Q555 KTC3199GRTA FAN CONTROL SWITCH (FOR POWER FAILURE CONTROL)
Q556 KTC3199GRTA DC DETECT SWITCH
14.7V
SW5V
MO9V
R585 56K
R584 100
C553 35V220P
C555 10V220P
Q555
Q556
R586 10K
C554 16V33
D556 MA700ATA
R583 220K
R582 18
R575 56K
R581 10K
D557 MA700ATA
Q554
R580 4.7K
Q554 2SB621ARTA FAN MOTOR SUPPLY SWITCH
Q553 KTC3199GRTA FAN ON/OFF SWITCH
R579 5.6K
R578 820K
C552 0.1
Q553
R577 10K
R576 820K

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

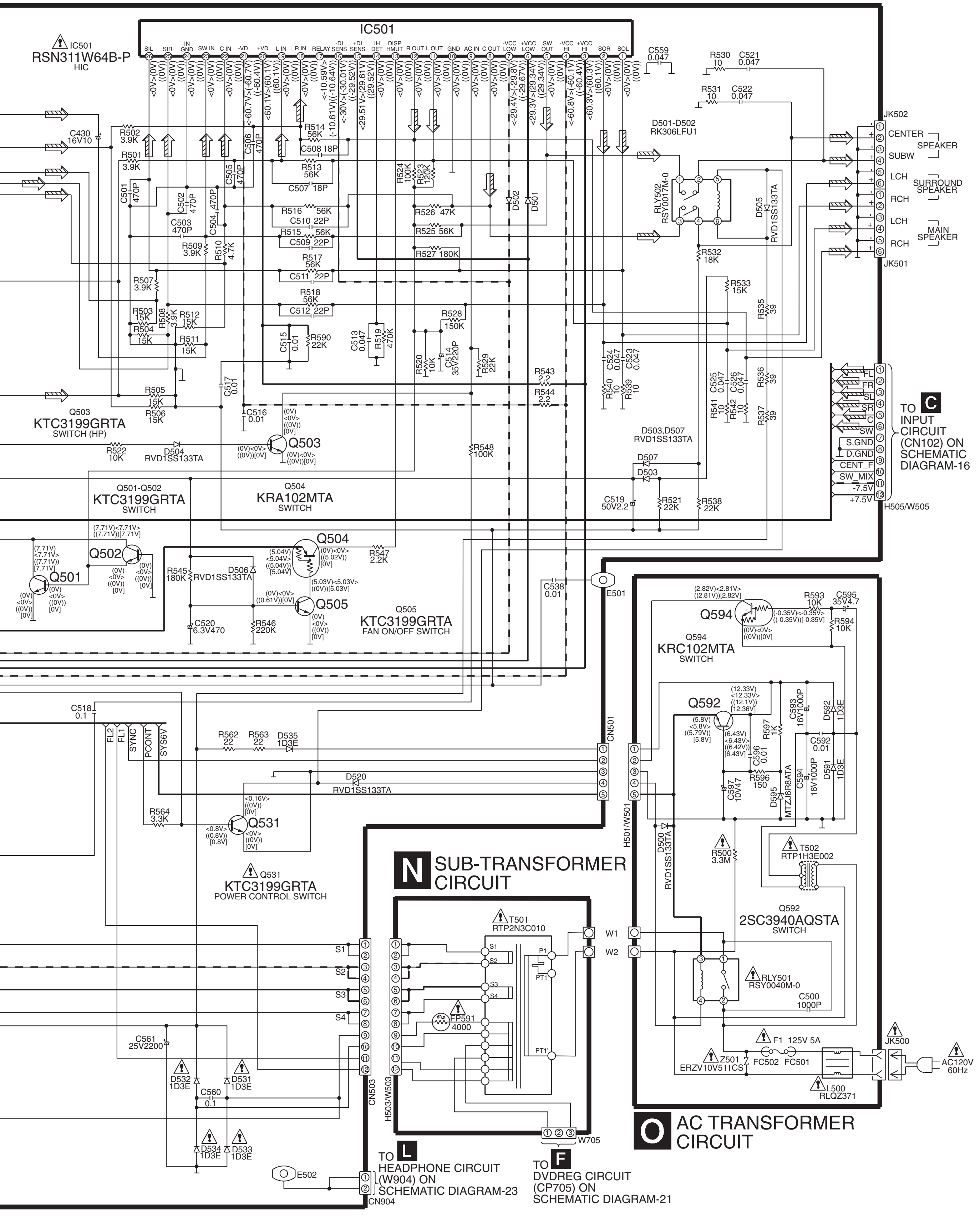
M MAIN CIRCUIT


C422
0.15
C420
5600P
R435
270K
C418
0.1
R436
82K
R437
82K
R434
15K
C419
0.039
C421
0.047
R438
8.2K
IC402
-VCC
+VCC
IC402
M5228FPE1
QUAD OP AMP
Q407
KTC3199GRTA
MUTING SWITCH
Q411
2SD2144STA
MUTING SWITCH
(FRONT RCH)
Q412
2SD2144STA
MUTING SWITCH
(FRONT LCH)
R551
1K
R552
1K
(0.66V)
<0.66V>
((0.66V))
[0.66V]
(0V)<0V>
((0V))[0V]
<-7.95V>(-7.94V)
((-7.97V))[-7.93V]
<7.89V>(7.9V)
((7.89V))[7.9V]
C423
50V1
R440
15K
C427
0.047
R439
15K
C426
0.1
C425
0.1
C424
0.047
R442
39K
R441
39K
R429
1K
Q407
(0.73V)<0.73V>
((0.73V))[0.73V]
R430
33K
R431
18K
C428
16V10
C429
50V1
SL
SR
C
SW
FR
FL
SW_MIX
CENTER_F
+7.5V
-7.5V
SW5V
IC502
STK470-050A
HIC
IC502
+VIN2
+10V
VO4
-3.3V
VO5
GND
GND
-VIN1
+1/2 VIN1
VO3
VO2
VO1
+1/2 VIN1
+VIN1
<17.46V>(17.32V)
((17.22V))
<8.8V>(8.84V)
((8.84V))
<9.26V>(9.29V)
((9.28V))
<0V>(0V)
((0V))
<-29.96V>(-29.96V)
((-29.83V))
<-8.57V>(-8.59V)
((-8.55V))
<-7.95V>(-7.95V)
((-7.96V))
<7.98V>(7.98V)
((7.99V))
<15.09V>(15V)
((15.1V))
<16.25V>(16.26V)
((16.26V))
<28.67V>(28.79V)
((28.67V))
C530
35V3300P
C529
35V5600P
C528
35V5600P
C527
35V3300P
D521-D526
1N5402BM21
D521
R559
2.2
D527
1D3E
D522
D523
FP549
500
C534
1000P
D536
1D3E
D524
D525
R555
3.9K
R554
15K
14.7V
+7.5V
MO9V
R558
1.5K
C539
16V47
C536
0.01
R556
1.5K
R557
3.3K
C537
25V100
C535
50V47
D526
C531
0.1
D539
MTZJ9R1BTA
C541
50V4.7
Q541
2SB621ARSTA
-VP VOLTAGE REGULATOR
R550
2.2
R599
10K
D528
1D3E
-7.5V
C546
63V100
C544
50V100
Q541
-VP
<-26.61V>
((-26.39V))
[-26.61V]
<-42.9V>
((-42.3V))
[-42.9V]
<-27.21V>
((-27.13V))
[-27.21V]
C548
1000P
R560
4.7K
R561
150
D546
1D3E
D545
1D3E
D544
1D3E
D543
1D3E
D542
1D3E
C542
25V330
C532
0.1
C549
50V10
D547
MTZJ27DTA
C547
63V100
C545
50V100
C543
25V330
D541
1D3E

SCHEMATIC DIAGRAM - 27

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

M MAIN CIRCUIT


IC501
IC501
RSN311W64B-P
HIC
SIL SIR IN GND SW IN C IN -VD +VD L IN R IN RELAY -DI SENS +DI SENS IH DET DISP HMUT R OUT L OUT GND AC IN C OUT -VCC LOW +VCC LOW SW OUT -VCC HI +VCC HI SOR SOL
C559 0.047
R530 10
C521 0.047
R531 10
C522 0.047
D501-D502 RK306LFU1
JK502
CENTER
SUBW
SPEAKER
LCH
RCH
SURROUND SPEAKER
LCH
RCH
MAIN SPEAKER
JK501
C430 16V10
R502 3.9K
R501 3.9K
C501 470P
C502 470P
C503 470P
C504 470P
C505 470P
C506 470P
R514 56K
C508 18P
R513 56K
C507 18P
R516 56K
C510 22P
R515 56K
C509 22P
R517 56K
C511 22P
R518 56K
C512 22P
R509 3.9K
R510 4.7K
R507 3.9K
R503 15K
R508 3.9K
R512 15K
R504 15K
R511 15K
R505 15K
R506 15K
C515 0.01
R590 22K
C513 0.047
R519 470K
R524 100K
R523 120K
R526 47K
R525 56K
R527 180K
R528 150K
R520 10K
C514 35V220P
R529 22K
D502
D501
RLY502 RSY0017M-0
D505 RVD1SS133TA
R532 18K
R533 15K
R535 39
R536 39
R537 39
C524 0.047
C523 0.047
R540 10
R539 10
C525 0.047
C526 0.047
R541 10
R542 10
R543 2.2
R544 2.2
C517 0.01
C516 0.01
FL FR SL SR C SW S.GND D.GND CENT_F SW_MIX -7.5V +7.5V
TO C INPUT CIRCUIT (CN102) ON SCHEMATIC DIAGRAM-16
H505/W505
Q503 KTC3199GRTA SWITCH (HP)
R522 10K
D504 RVD1SS133TA
Q503
R548 100K
D503,D507 RVD1SS133TA
D507
D503
C519 50V2.2
R521 22K
R538 22K
Q501-Q502 KTC3199GRTA SWITCH
Q504 KRA102MTA SWITCH
Q502
Q501
Q504
R547 2.2K
R545 180K
D506 RVD1SS133TA
Q505
Q505 KTC3199GRTA FAN ON/OFF SWITCH
C520 6.3V470
R546 220K
C538 0.01
E501
C518 0.1
FL2 FL1 SYNC PCONT SYS6V
R562 22
R563 22
D535 1D3E
D520 RVD1SS133TA
CN501
H501/W501
R564 3.3K
Q531
Q531 KTC3199GRTA POWER CONTROL SWITCH
Q594
Q594 KRC102MTA SWITCH
R593 10K
C595 35V4.7
R594 10K
Q592
R597 1K
C593 16V1000P
D592 1D3E
C592 0.01
C596 0.01
R596 150
C597 10V47
D595 MTZJ6R8ATA
C594 16V1000P
D591 1D3E
D500 RVD1SS133TA
R500 3.3M
T502 RTP1H3E002
Q592 2SC3940AQSTA SWITCH
N SUB-TRANSFORMER CIRCUIT
T501 RTP2N3C010
S1 S2 S3 S4 P1 PT1 PT1'
FP591 4000
W1 W2
RLY501 RSY0040M-0
C500 1000P
F1 125V 5A
Z501 ERZV10V511CS
FC502 FC501
JK500
AC120V 60Hz
L500 RLQZ371
O AC TRANSFORMER CIRCUIT
C561 25V2200
D532 1D3E
D531 1D3E
C560 0.1
D534 1D3E
D533 1D3E
CN503
H503/W503
W705
E502
CN904
TO L HEADPHONE CIRCUIT (W904) ON SCHEMATIC DIAGRAM-23
TO F DVDREG CIRCUIT (CP705) ON SCHEMATIC DIAGRAM-21